SEQUENCE LISTING

<110> Ruben et al.

<120> 90 Human Secreted Proteins

<130> PZ013P2C1

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<151> 2001-10-06

<150> 09/774,639
<151> 2001-02-01

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<150> 09/244,112
<151> 1999-02-04

<150> PCT/US98/16235
<151> 1998-08-04

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<170> PatentIn Ver. 2.0

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tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg   180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg   240
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact   300
ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca accccatcg   360
agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc   420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct   480
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga   540
ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg   600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc   660
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<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (3)
<223> Xaa equals any of the twenty naturally occurring L-amino acids

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<211> 86
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<213> Artificial sequence

<220>
<223> synthetic GAS containing promoter element

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cccgaaatat ctgccatctc aattag                                            86


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<213> Artificial sequence

<220>
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gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat       180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt       240
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<210> 6
<211> 32
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<400> 7
gcgaagcttc gcgactcccc ggatccgcct c   31

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ggggactttc cc   12

<210> 9
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ccatctcaat tag   73

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<213> Artificial sequence

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cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga   180
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4

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catgcataat cttatatcaa gtataatttc atttttatat aatttctgtg ccttacctct     180
tgcttctccc caattcacaa atgaagaaag tagttacacc gcccttcgtt catgtacaag     240
gggagggttt gaatccaggt ctctaggaac ccaaaagtca tgcaccttcc aaggcaaagg     300
agattaccat gttacagcat agataaaaac ataatagaat taggaattgg ataagtatag     360
agggttcaat agtgttcccc caaaattcct ctcaacactg aagctcagaa tgtgacctta     420
tttggagata ggatctccaa aggtaatgca gatgtaatca gttaagatga ggtcataccg     480
gattaatttg ggtcctaaat ctaatgactg gtatcctttt aagaagaaga gaaaacacag     540
gacacagaca caaggaagca gcaaacgtga agacagaggc tgggggtgta gtgatgcagc     600
tataaggcat ggggccaccg gaggctggga agggataagg agggacccct ccccaaagcc     660
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<213> Homo sapiens

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<223> n equals a,t,g, or c

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ggtctcgaac tcctgacctc gtgatccgcc cgcctcggcc tcccaaagtg ctgggattac     120
aggcatgagc cactgcgccc agccggtctt tttaaacatt ccccaggact gtacagccaa     180
cccatactca cctgacattt gggaactccc ccccacggcc ataactgatc tgcagaggta     240
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aagaatcagc gaacaaaagc ctctaggtct ttcttaccac aaacacctct ctgcccacct     360
gctttgaaag gggcagaagt atagtgggcg agctgcccac ctgctacagt gaagggatct     420
ggagaaatac tcacactttg aggtgctcgc cctcttcatc agccagctct aacttaagcc     480
aatgacccca cgggagctta cacaagtyca aacaggccca aatgcattca tgagcagggg     540
gaggccaaag gactccggag gagagaggcc caataaggct ggtgctattt ccgatccata     600
gagagagcag aggtgggcag gcccttttga ttaatgtatc attcttgaat gcaagcttca     660
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ccaggcccga ctggccagag acagatccgc aagaggctct gcagccagct ctggtgccaa     780
gccactcgga tttgaacccc ggctcctcaa ggtcagctgt gtagccttga ntgaaycacc     840
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<212> DNA
<213> Homo sapiens

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acgccaactg tagccaggta ggaacaatgg tcacttgtac ctgcctgccc gactacgagg     180
gtgatggctg gagctgccgg gcccgcaacc cctgcacaga tggccaccgc ggggctgca      240
gcgagcacgc caactgcttg agcaccggcc tgaacacacg gcgctgtgag tgccacgcag     300
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aacgggctgg cgttttccac ctccaggcca ccagcggccc ttatggtctg aacttttcgg        480
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<213> Homo sapiens

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ccactgtccc cagcaggatt atcttactat attgtgccac agaatatttt attagcgttt        180
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6

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<213> Homo sapiens

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ataacccccct cccccttcat tacttcactc aggtgggcac cttcccctgc agggtgtctg        180
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cgtgtcccct gctcctcgcc cctgggagcc camtcccmct ccttgcggct ccctcccatc         540
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (486)
<223> n equals a,t,g, or c

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<221> misc_feature
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<223> n equals a,t,g, or c

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cttcgttcat gtataaataa agctcctcgt ggctccctta aaaaaaaaaa aaaaaaactc        900
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7

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<223> n equals a,t,g, or c

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<222> (852)
<223> n equals a,t,g, or c

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ggaaaattca ccgtcgccat tgccagaaag agcgatttat ggctttgttc ttttcttaag     180
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ttcccawaaa aaaaaaaaaa aaagggcggc cgctctagag gatccaagct tacgtacgcg     780
tgcatgcgac gtcatagctc ttctatagtg tcacctaaat tcaattcact ggccgncgtt     840
ttacaacgtc gngactggga aaaccctggc gttacccaac ttaatcgcct tgca           894


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<212> DNA
<213> Homo sapiens

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gctgcgggcc ctggcccagg ctgcacgtgc aggacctcct ggtggccgga gcctccacag     180
cagtgcagtg gcagccacct acaagtatgt gaacatgcag gatcccgaga tggacatgaa     240
gtcagtgact gaccgggcag cccgcaccct gctgtggact gagctcttcc gaggcctggg     300
catgaccctg agctacctgt tccgggaacc ggccaccatc aactacccgt tcgagaaggg     360
cccgctgagc cctcgcttcc gtggggagca tgcgctgcgc cggtacccat ccggggagga     420
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caactttgag ttctccacgg agacccatga ggagctgctg tacaacaagg agaagttgct     660
caacaacggg gacaagtggg aggccgagat cgccgccaac atccaggctg actacttgta     720
tcggtgacgc cccaccggcc tgcagcccct gctgcccaat aaaaccactc cgaccccaaa     780
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<212> DNA
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8

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<222> (422)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

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<222> (758)
<223> n equals a,t,g, or c

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catccggcgg gctcagggag cgagtgggag cgccctcccc ccgctgcccc ctcccccgag    180
catcgagaca agatgctgcc cgggctcagg cgcctgctgc aagctcccgc ctcggcctgc    240
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tgctactcat ccccgcccac cgtgaagctg ccaggccaac aacttctcct ctgtgccgct    360
gtccctgcca cccagcactc agcgactctt cctgcagaac aacctcatcc gcacgctgcg    420
gncaggcacc tttgggtcca acctgctcac cctgtggctc ttctccaaca acctctccac    480
catctacccg ggcactttcc gccacttgca agccctggag gatctggacc tcggtgacaa    540
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gcatttgtac cgtgccagct cagcarcstg cccggcaaca tcttccgagg cctggtcagc    660
ctgcagtacg tctacctcca ggagaacagc ctgctccacn tacaggatga cttgttcgcg    720
gacttggcca acctgagcca cctcttcctc cacggganag cctgcggctg ctcacagagc    780
acgtgtttcg cggcctgggc agcctggacc ggctgctgct gcacgggaac cggctgcagg    840
gcgtgcaccg cgcggccttc cgcggcctca gccgcctcac catcctctac ctgttcaaca    900
acagcctggc ctcgytgccc ggcgaggcgs tcgccgacct gccctcgctc gagttrctgc    960
ggctcaacgc taacccctgg gcgtgcgact gccgcgcgcg gcc                     1003
```

<210> 20
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)
<223> n equals a,t,g, or c

<400> 20
```
gcnggtggcg gccrcrtcgt agaactagtg gatccccckg ggctgcagga attcggcacg     60
agggcggatt catcatgaag caaacgcggc tgaacccccc agtggtcttc attcttctcc    120
aacccctttc aagacccagg gatgggctca gcaattctgt tttaataatt ttgcattctg    180
tcccttaaat cataaagaga gcccccaatc tgtaaagctt ctgatcccac acaacctctc    240
agggctccag ggtcctgagg aggatggcca ggtcactgtg ggcctgtggt ggagccagcg    300
ggcacccagg gcttcctggt gggccaggtc cctggtcata gactgagcca gammagcatc    360
agcytccgat ctccaggccc ctgcggtgag ggccccaatg ccctgataa ggctctgctc     420
ctaaagggct gttggccttg aacaagctgc tctcctgcct cagtttccam ttcaggatgg    480
agacatgaat gagagaagtg tccctgaaac tcctgatggc tttccatttc ctggtttcct    540
gtctttcctg aggctgaatt cttcgcctgc tttctctgag atccctcact ttcctgccaa    600
gaaatttcct ctttagtctg ttcagagtga agtgcaaatc aaaataaaaa agtgcaagtt    660
caaagtgcaa tcaaaacaaa caaacaaact ttggctaagg caaaaccaaa ccaaaaaaaa    720
aaaaaaaaaa ctc                                                      733
```

9

```
<210> 21
<211> 722
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (697)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (717)
<223> n equals a,t,g, or c

<400> 21
gaattcggca cgagcatgag ccactgcacc cagccgatac tactatatcc ccattttaca        60
gatgagcaca tgggcaaatt gagggtaagg cactgaccca tgatcataca gctgagaagt       120
ggcaaaggca ggatttgaac ctagaacctc tggctccaca cactagtaat ctaaaccact       180
ctccctacaa tacaacatac gtggtaaaga tgtgtggtgg gcacgcaatc aacgtaggtc       240
ccttcacagt tgctgggaga ggcaggaatt tgcagttcct ccgcgttctc ctcctccgct       300
gcccacctgt cctgggtcat tcctgcagcs tgccctgccc tgcctggtct caccctccct       360
ctgccaacag aagtctgggc agggttttat gggctctgat aaggccctgg cagggccgaa       420
gttcatgagc acttcctctt tgcaggaggg cgtaggggag gggacccagg tgatttgggt       480
cctggctggt caccagggaa gctggcaagg gaagggagac tagggtgcgc tctaggagaa       540
gccgacagcc tgagagtccc agaagaggag ccctgtggac cctcccctgc cagccactcc       600
cttaccctgg gtataagagc caccaccgcc tgccatccgc caccatctcc cactcctgca       660
gctcttctca cagaccagcc actagcgcag cctcganggg gggcccgtcc caatttncct       720
ct                                                                      722


<210> 22
<211> 700
<212> DNA
<213> Homo sapiens

<400> 22
ggtcgaccca cgcgtccgga atatttaagg gtaaaatttt tctacttta aagcttaaaa        60
aaatgttttt ttactactgt aaaagtaatg cagagaaatg ttcacttacc aaacacatac       120
ctttgtaaaa atcaccactt aaagtttgtt tctaaagatt ttaggacacc aagatgcaaa       180
taatatttt ggctgttacc tgctctttca ctactgctga gtctgcagtg gcaagatagc       240
tacacagtac ctcagccctc ctgctcagtt tttaacatct attgataata ctaattacaa       300
gaaaatttaa aatgtctttt tgcaaaaaga taccataagc agtcaaaaca caattaaaaa       360
aaaaaaagag agagatgtaa acaattactt tccggccggg tgcggtggct cacacctgta       420
atcccagcat tttgggagac caggcgggga ggattgcctg aggtcaggag ttcaagacca       480
gcctggctaa catggtgaaa acccatctct actaaaaata caaaaaaata gccaggcgtg       540
gtgacgcatg cctgtagtcc caggtactcg ggaggctgag gcaggagaat cgcctgaacc       600
caggagatgg aggttgcggt gagccaagat cacgccactg cactccagcc tgggtgatag       660
agcaagactc tgtttccaaa aaaaaaaaa aagggcggcc                              700


<210> 23
<211> 1266
<212> DNA
<213> Homo sapiens

<400> 23
cccatgtcgg ccctgaggcg ctcgggctac ggccccagtg acggtccgtc ctacggccgc        60
```

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tactacgggc ctggggggtgg agatgtgccg gtacacccac ctccacccctt atatcctctt      120
cgccctgaac ctccccagcc tcccatttcc tggcgggtgc gcgggggcgg cccggcggag       180
accacctggc tgggagaagg cggaggaggc gatggctact atccctcggg aggcgcctgg       240
ccagagcctg gtcgagccgg aggaagccac cagagtttga attcttatac aaatggagcg       300
tatggtccaa catacccccc aggccctggg gcaaatactg ccttcatact caggggctta       360
wtatgcacct ggttatactc agaccagtta ctycacagaa ttccaagtac ttaccgttca       420
tctggcaaca gcccaactcc agtctctcgt tggatctatc cccagcagga ctgtcagact       480
gaagcamccc ctcttagggg caaggttcca ggatatccgc cttcamagaa mcctggaatg       540
amcctgcccc attatcctta tggagatggt aatcgtagtg ttccacaatc aggaccgact       600
gtacgaccac aagaagatgc gtgggcttct cctggtgctt atggaatggg tggccgttat       660
ccctggcctt catcagcgcc ctcagcacca cccggcaatc tctacatgac tgaagtactt       720
caccatggcc tagcagtggc tctccccagt caccccccttc accccagtc cagcagccca        780
aggattcttc ataccccctat agccaatcag atcaaagcat gaaccggcac aactttcctt       840
gcagtgtcca tcagtacgaa tcctcgggga cagtgaacaa tgatgattca gatcttttgg       900
attcccaagt ccagtatagt gctgagcctc agctgtatgg taatgccacc agtgaccatc       960
ccaacaatca agatcaaagt agcagtcttc ctgaagaatg tgtaccttca gatgaaagta      1020
ctcctccgag tattaaaaaa atcatacatg tgctggagaa ggtccagtat cttgaacaag      1080
aagtagaaga atttgtagga aaaaagacag acaaagcata ctggcttctg gaagaaatgc      1140
taaccaagga acttttggaa ctggattcag ttgaaactgg gggccaggac tctgtacggc      1200
aggccagaaa agaggctgtt tgtaagattc aggccatact ggaaaaaaaa aaaaaaaaa       1260
actcga                                                                1266


<210> 24
<211> 785
<212> DNA
<213> Homo sapiens

<400> 24
gaattcggca cgagcttgtt cacactcagt aaacacatta gttgaattcc tctgattgtc       60
aattagcaat ggttttgcca agaatactgg tattgatgct gttttttagca ctgaaaaatc      120
ctgtgggaga aatgaggaat ttaacacatt gtaggtgtta agattcctgg gtgtctgaca       180
gtatccctgg aaccattatc attaattaac ttttcaatca gaaaggcaaa ctactttgct       240
gttaggcttc cagatgaggt tttttgaaaa aacagtaaga taataaaggc ttggattgct       300
cctacttcct gaggcaagtc acatctcata ttattcagaa cttggactga agagctcata       360
gggcaagtga ggccaaggtc aggagtcttc agacatcttg ggccaagtgc cattctagaa       420
gaaatgattc tcttcctcag tcaccatcta tctatgcccc caggtttgac tcgctctttt       480
cccaaggagt gctgttcatt cctgacacaa gggagaccag aaaagagatc atgaatgaca       540
gtgaaaacct ttatgacact gacataaagc agagagttag actgaatatg agttggtagc       600
ttttcctttg tatctgtgta agttgaatca tacaaaattg tcattttggt gattcaaaag       660
tgtaaaacaa aagcaagttc atatgattca agcttacatt tttttctcac tataagaaag      720
aggatttaaa gaattgtatt aggttagcga atctgatttc tttcatgcaa atacagctcc       780
tccga                                                                   785


<210> 25
<211> 2351
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (593)
<223> n equals a,t,g, or c

<400> 25
acccacgcgt ccgccacgcg tccgggtcca ttgccacctg gatgggagaa gagaacagac       60
agcaatggca gagtatattt cgtcaaccac aacacacgaa ttacacaatg ggaagacccc       120
agaagtcaag gtcaattaaa tgaaaagccc ttacctgaag gttgggaaat gagattcaca       180
gtggatggaa ttccatattt tgtggaccac aatagaagaa ctaccaccta tatagatccc       240
```

11

```
cgcacaggaa aatctgccct agacaatgga cctcagatag cctatgttcg ggacttcaaa      300
gcaaaggttc agtatttccg gttctggtgt cagcaactgg ccatgccaca gcacataaag      360
attacagtga caagaaaaac attgtttgag grttcctttc aacagwtawt gagcttcagt      420
ccccaagatc tgcgargacg tttgtgggtg attttccag gagaagaagg tttagattat        480
ggaggtgtag caagagaatg gttctttctt ttgtcacatg aagtgttgaa cccaatgtat      540
tgcctgtttg aatatgcagg gaaggataac tactgcttgc agataaaccc cgnttcttac      600
atcaatccag atcacctgaa atattttcgt tttattggca gatttattgc catggctctg      660
ttccatggga aattcataga cacgggtttt tctttaccat tckakaagcg tatcttgaac      720
aaaccagttg gactcaagga tttagaatct attgatccag aattttacaa ttctctcatc      780
tgggttaagg aaaacaatat tgaggaatgt gatttggaaa tgtacttctc cgttgacaaa      840
gaaattctag gtgaaattaa gagtcatgat ctgaaaccta atggtggcaa tattcttgta      900
acagaagaaa ataaagagga atacatcaga atggtagctg agtggaggtt gtctcgaggt      960
gttgaagaac agacacaagc tttctttgaa ggctttaatg aaattcttcc ccagcaatat     1020
ttgcaatact ttgatgcaaa ggaattagag gtcctttat gtggaatgca agagattgat     1080
ttgaatgact ggcaaagaca tgccatctac cgtcattatg caaggaccag caaacaaatc     1140
atgtggtttt ggcagtttgt taaagaaatt gataatgaga agagaatgag acttctgcag     1200
tttgttactg gaacctgccg attgccagta ggaggatttg ctgatctcat ggggagcaat     1260
ggaccacaga aattctgcat ykaaaaagtt gggaaagaaa attggctacc cagaagtcat     1320
acctgtttta atcgcctgga cctgccacca tacaagagct atgagcaact gaaggaaaag     1380
ctgttgtttg ccatagaaga aacagaagga tttggacaag agtaacttct gagaacttgc     1440
accatgaatg ggcaagaact tatttgcmat gtttgtcctt ctctgcctgt tgcacatctt     1500
gtaaaattgg acaatggctc tttagagagt tatctgagtg taagtaaatt aatgttctca     1560
tttagattta tctcccagtg atttctactc agcgtttcca gaaatcaggt ctgcaaatga     1620
ctagtcagaa ccttgcttaa catgagattt taacacaaca atgaaatttg ccttgtctta     1680
ttccactagt ttattccttt aacaacaata ttttatgtgt gtcaaaagtc tcacttggga     1740
gtagtgtttt tttcttttag acattctgca gacatgcagg gaagtccttt ggtaactgca     1800
atatacaaga ttttcctatt aagcctcttg gtaagaggca tttgttaaaa gtgcaagctt     1860
actcctgctt ctggggatgt gagcaaaatc gggcttgtgt tctccctctc attttagtct     1920
gacttgacta ttgttttttcc tttctggcgc atgaatccat acatcattcc tggaagtgag     1980
gcaagactct tgcatctcta caaagtagtt ttgtcaattt gaattcaggg aaaagttggt     2040
cacagcctgc aaatgacttc atttggaagt ctgattgttt cagttgcctg acaaatacta     2100
cactttacaa acaatgttaa cactgtgatt ccttcattgt tttaagaagt taacctaggg     2160
ccgggcatgg tggctcatac ctgtaatcct agcactctgg gaggccgagg caggaggatc     2220
cctttagccc aggagttaaa gaccagcctg ggcaacatag ggagaccctg tctttttttt     2280
gggcagcgtg gtgggggata aataaaaaaa aaaaaaaaaa actcgagggg gggcccgtac     2340
ccaatcgcct g                                                          2351


<210> 26
<211> 510
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)
<223> n equals a,t,g, or c

<400> 26
gnaccccgg gctgcaggaa ttcggcmcga gaaatgaggc ttcagcctga catctgtaac       60
ctccccacca accctctgag tctgaagttg ggcttgatgc tgttatcact gacccttgt      120
ttggagaaaa cagtccaagg tttgaaattg ggtctatgtt tattcaaact aagcttctct      180
gagcacatgg tctgtcccac tcatcctcag agtatccgtt ggttttactt catgttcaga      240
ctgcagtgtt gttaaagaaa taaagctaca gtgttttcag aaggatttgt tatattatac      300
ttcatgttcc cactgctcca ggctaagcgt ctcctctggg ctccattgtt taatgcagga      360
caaagccagg ttttctggca gcttcctttt catagcaatt ctcagtagag gtatagaatg      420
agacctgcct accttcttgg gtgtttatta ccccatttgt ggattttact ttaacttctg      480
ttaccttaaa aaaaaaaaaa aaaactcga                                        510
```

12

<210> 27
<211> 1307
<212> DNA
<213> Homo sapiens

<400> 27
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ggtcgaccca cgcgtccgga gccgcgaggg agaggccgcg gccccttccc gttgcctgcg        60
gccaccggcc ggcattcaga gcccctcgcc tggcgctaaa tttaaaaacg taacacgagc       120
agcaggctgg tctcggaaac gaaacgaaat tcggtccctg ggcctcctcc cgggcgctgc       180
cggtccctca gcgcgccgcg ccacccggaa cagacccttc tcccgccatt ttcggcgggg       240
ctgggagact gaggcccgcg gcgctgagcc tgcggcgccc cggaagaggc gggcggcatg       300
gccgctggcg tggactgcgg ggacggggtt ggcgcccggc agcacgtgtt cctggtttca       360
gaatatttaa aagatgcttc aaagaagatg aaaaatgggc taatgtttgt aaaactggtt       420
aacccctgtt caggagaagg agccatttac ttgttcaata tgtgtctaca gcagctgttt       480
gaagtaaaag ttttcaagga aaaacaccat tcttggttta taaatcaatc agttcaatca       540
ggaggtcttc tccattttgc cacacctgtg gatcctctat ttctgcttct ccactacctc       600
ataaaggctg ataaggaggg gaagtttcag ccccttgatc aagttgtggt ggataacgtg       660
tttccaaatt gcatcttgtt gctgaaactt cctggacttg agaagttact tcatcatgtg       720
acagaggaaa aaggtaatcc agaaatagac aacaagaaat attacaagta cagcaaagag       780
aagacattaa agtggctgga aaaaaaggtt aatcaaactg tggcagcatt aaaaaccaat       840
aatgtgaatg tcagttcccg ggtacagtca actgcatttt tctctggtga ccaagcttcc       900
actgacaagg aagaggatta tattcgttat gcccatggtc tgatatctga ctacatccct       960
aaagaattaa gtgatgactt atctaaatac ttaaagcttc cagaaccttc agcctcattg      1020
ccaaatcctc catcaaagaa aataaagtta tcagatgagc ctgtagaagc aaaagaagat      1080
tacactaagt ttaatactaa agatttgaag actgaaaaga aaaatagcaa aatgactgca      1140
gctcagaagg ctttggctaa agttgacaag agtggaatga aagtattga tacctttttt      1200
ggggtaaaaa ataaaaaaaa aattggaaag gtttgaaact ttgaaaataa aatctagcaa      1260
aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaag ggcggcc                     1307
```

<210> 28
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (345)
<223> n equals a,t,g, or c

<400> 28
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tcgacccacg cgtccgagat cttcagcaga aagatattgg tgtgaaaccg gagttcagct        60
ttaacatacc tcgtgccaaa agagagctgg ctcagctgaa caaatgcacc tccccacagc       120
agaagcttgt ctgcttgcga aaagtggtgc agctcattac acagtctcca gccagagag       180
tgaacctgga gaccatgtgt gctgatgatc tgctatcagt cctgttatac ttgcttgtga       240
aaacggagat ccctaattgg atggcaaatt tgagttacat caaaaacttc aggtttagca       300
gcttggcaaa ggatgaactg gggatactgc ctgacctcat tcgangctgc ccattgaata       360
ttcggcaagg aagcctctct gctaaacccc ctgagtctga gggatttgga gacaggctgt       420
tccttaagca gagaatgagc ttactctctc agatgacttc gtctcccacc gactgcctgt       480
ttaaggctga tgctctatta gaataaaaga ggatccccta gtccatagca agtataaaaa       540
taataataaa taaaaaaata acaagatgaa gctgggcatg gtggtgtgca cttgtagtcc       600
cagctatatg ggaggctgag gtgggaggat cacttgagcc cgagaggttg aggctgcagt       660
gagctctgat tgtgccactc tactccagcc tgggcaacat agcaagacct tgtttctaaa       720
aaaataaata aataaattct gttatttgtc accctgtagg gattcactga aaaaaaaaa       780
aaaaaagggc ggcc                                                         794
```

<210> 29
<211> 1040
<212> DNA

13

<213> Homo sapiens

<220>
<221> misc_feature
<222> (33)
<223> n equals a,t,g, or c

<400> 29
cctggcaggt accggctccg gtaattcccg ggntcgaccc acgcgtccgc ggcgcccgta   60
agcggacgct gttaggggtg gcggggggtt ggcggcggtt cgagaggctc tgggccggca   120
gtctaagctc tcgcagcctg gctcttgcag ccgcaccctc aagcaacgga tccccatggc   180
gcttgttggg cgcgttgtgc ctgcagcggc cacctgtagt ctccaagccg ttgaccccat   240
tgcaggaaga gatggcgtct ctactgcagc agattgagat agagagaagc ctgtattcag   300
accacgagct tcgtgctctg gatgaaaacc agcgactggc aaagaagaaa gctgaccttc   360
atgatgaaga agatgaacag gatatattgc tggcgcaaga tttggaagat atgtgggagc   420
agaaatttct acagttcaaa cttggagctc gcataacaga agctgatgaa aagaatgacc   480
gaacatccct gaacaggaag ctagacagga accttgtcct gttagtcaga gagaagtttg   540
gagaccagga tgtttggata ctgccccagg cagagtggca gcctggggag acccttcgag   600
gaacagctga acgaaccctg gccacactct cagaaaacaa catggaagcc aagttcctag   660
gaaatgcacc ctgtgggcac tacacattca agttcccca ggcaatgcgg acagagagta   720
acctcggagc caaggtgttc ttcttcaaag cactgctatt aactggagac ttttcccagg   780
ctgggaataa gggccatcat gtgtgggtca ctaaggatga gctgggtgac tatttgaaac   840
caaaatacct ggcccaagtt aggaggtttg tttcagacct ctgatgggcc gagctgcctg   900
tggacggtgc tcagacaagt ctgggattag agcctcaagg acattgtgtg attgcctcac   960
atttgcaggt aatatcaagc agcaaactaa attctgagaa ataaacgagt ctattacwaa   1020
aaaaaaaaaa aaaaatcgca   1040

<210> 30
<211> 781
<212> DNA
<213> Homo sapiens

<400> 30
gaattcggca cgagaagagt atcatatgca gagtttccct tggtaaacat atttaaaata   60
aataaatctg gaagtgtctg agagtcaaaa atgtggtgca tgcaatatat gatgtaaaac   120
aaaggcgggt ggtttacgta gctcagcaga caagacgcca gatggtatgt atgcttgatt   180
gaaagtaccc acctgttatt ctgcgaacac aatgggagga acagaatcct acatttcctc   240
atccccttta ctgaggactc tccttctttc atacttagta tttttatatt acctgtatct   300
attattctac gtggcaagaa gtccttttgg gaaggcagag tataaataat gtagttttat   360
taatagataa gtattagtaa aactttgcat tagaagatgt atgactgacg ttgcatagag   420
ttgtgtgatg tagagtaata ttccatggtg tacacatcca taattatgtt tgccgaaaca   480
tgaataccct actacaggtc tttgtgatag acatcagggt ggggatgcat aggggacaaa   540
aatgtacaca attttgtgtc tgctctcaga gagattacat agtaggagag gaagacccag   600
tattaaaaaa tagaataaag gcaagtgccc caaatctttg tcattaattt tractggaag   660
agaggcttag gaaagatgag acatttaagc attgcatgga ggaaaaaaga agtagatctc   720
cttggcaggt ggataggcta ggacattcca aactgagaaa aaaaaaaaa aaacgscacg   780
a   781

<210> 31
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (749)
<223> n equals a,t,g, or c

14

```
<400> 31
gagctgcctg atggaaagaa gagaagaaag gtcctggcgc tcccctcaca ccgaggcccc      60
aaaatcaggt tgcgggacaa aggcaaagtg aagcccgtcc atcccaaaaa gccaaagcca     120
cagataaacc agtggaagca ggagaagcag caattatcgt ccgagcaggt atctaggaaa     180
aaagctaagg gaaataagac ggaaacccgc ttcaaccagc tggtcgaaca atataagcag     240
aaattattgg gaccttctaa aggagcacct cttgcaaaga ggagcaaatg gtttgatagt     300
tgatgatggc agcaggctgg gtaagaagct gggttgtgta ctttctggtg acactcctgg     360
gctcctcccc atcccccgtg tctctcactg agggaaagaa aatccccaag ggcactgcca     420
ctgtgctcgg aggtgccctg gactgtgtac atctgaactt tggtccatcc tttgatgtgt     480
ggttcgttag ccacaaagag aaatatctga aagtcaacat gatgcttctt gcatattatc     540
cagattattg tatgaagttg tgtctataat tattaccaat ttttattctt tatttctcaa     600
atggaaacac ctgaaaaagc attctggagt gctgaatttt taagatgtat attttgttaa     660
gcatattctc taaatgagat attgtgtggc ttttagtaa caacgtcatt tctaataaaa     720
aaaaaaaaaa aaaagaaaa gaaaaaaana                                       750


<210> 32
<211> 697
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (394)
<223> n equals a,t,g, or c

<400> 32
ggccgccctt tttttttttt tttgataaaa gaaaagattg gtcttgtctc tgtaaaactg      60
aggaacaatt actttagata actggtgtta gttttcnctt tctttcttga cggaagcaaa     120
acagatatgg gttctaccct caagaagctt tagatgaatc agagatatag acataaaata     180
aagaactata aaacaattca ttacgcttat gatagctgta ataataaaaa agtacaggga     240
acaataatat catataacag agggataaca tcacacaggg aacaacagta tcacatagca     300
gggatatata caaggatcct aggtaacctg gtctggatat atacaaggat cccgggtgac     360
ccggtctggc tggtaagagg tttccctgag aaancgatca gtgagagctg agagagaagc     420
aggcagagca agktgatggg gcaggggtgg ggagagagca gaagcgtgac ccaagagggt     480
cccaggccaa aacctttgca ctcagtgact ctgaaagaat gcagaggggc tgtggctcaa     540
agctgcagct ggaaaggtaa gaggggccag gcactgcagc accatgtgga tcacactata     600
aactttgaat atcatcctaa gagaaatggg aaaccaatta tggattttta aaaggaaata     660
tttttatttc cattttaacc ggacgcgtgg gtcgacc                              697


<210> 33
<211> 557
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (16)
<223> n equals a,t,g, or c

<400> 33
gcaggtaccc ggtccnggaa ttcccgggtc gacccacgcg tccggtattt ttttattggg      60
gtggggaaag gggcaaaaag aatgatctta gtgtctttac ctttctcata ttaactcacc     120
tctttattct gtggtctttt ctgaatagaa atgtatgccc taggaagaaa tcatgctggg     180
```

15

```
ttttgctttt agagataaaa ggtggtggat ttattttgcc tgcagtaaag attctcaggg        240
tgtcagagca gcatattgtc aaatcctgct tctgttttat gtttcagtgt attcactttc        300
attttcttac ttactagacc atttctgcag tttgcccaaa cctctactgt ttgggacagt        360
aagccaaata cctcattttt aaaaagaagt tttcatggca tcagtgttaa taaagtacat        420
ttttaactga gtcttaatct ctatttgaag aaaaagtaga gacaaaagta atgtcaatgt        480
aatccccagg atcatgaaat gtatacaaaa taaataaagt aggagagtta aaaaaaaaaa        540
aaaaaaaaag ggcggcc                                                       557


<210> 34
<211> 674
<212> DNA
<213> Homo sapiens

<400> 34
ggtcgaccca cgcgtccgat aatgtgtagc tactgtatgc cttatttaat tattttttttg        60
agtgtcattc acaatcacaa aacgataccc ttactgaaag tgttagtgga taaacttaat       120
tgcataatta cggacctgtg tatttccaga gatgatgttt tccccactac atgttaagat       180
gtacgtattt aatgacaatg ctgtttgttg tatgagaact tgagacagaa gatttagtag       240
gattatccag tgacagtcag tacagggtgc gattaagctg tccttctggc tcttggcctg       300
gtatatgttt gtctctggcc atgcagttac agaatagggc aggtggcatg tttatatatg       360
cctttgattt cacagaagtt ggtgagcttt cctaagtgga gaatttttaga gctagatagg       420
attgttgtgg gagaggggggc agggaatgga gagttgattc ttcactcttc tgtggtgcag       480
ttgaatttac atgtagctgg aactgatttt ccaagggatt atgatggcaa tgagcttaga       540
agattggttg ggttttagca cttcagaatt ggatcccttg ccggaaccct tgctaagagg       600
gagtggactt gtatttggta cagagaccaa aaaaaaaaa aaaaaagggg sggcccccccc       660
caaggggggcc ccaa                                                         674


<210> 35
<211> 510
<212> DNA
<213> Homo sapiens

<400> 35
gaactastgg atcccccggg ctgcaggaat tcggcackag gctgcgctcg gccaggccgg        60
caccatgcgg cccctgctct gcgcgctgac cggactggcc ctgctccgcg ccgcgggctc       120
tttggccgct gccgaaccct tcagccctcc gcgaggagac tcagctcaga gcacagcgtg       180
tgacagacac atggctgtgc aacgccgtct agatgtcatg gaggagatgg tagagaagac       240
cgtggatcac ctggggacag aggtgaaagg cctgctgggc ctgctggagg agctggcctg       300
gaacctgccc ccgggaccct tcagccccgc tcccgacctt ctcggagatg gcttctgagc       360
cctggagctg gagcccagca gttggaggtg gtgcacctgc cagcagcgcc cacagaacca       420
gccctgtcct ctcgacttcc ttccttagct tcatgtgaaa taaaagctat tctggtcaaa       480
aaaaaaaaaa aaaaaaaaaa aaaactcga                                          510


<210> 36
<211> 606
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (272)
<223> n equals a,t,g, or c

<400> 36
ggaattcggc acgaggaaat aaggtgacag atccccagct gctgaagaac tagaatgtct        60
attacactca tacaattgat gttttatttt aatacaccag agctaccaca caaaacttcc       120
ttccatgtga aaggctccag ataaaattct gccatccctc ctctcctcat gtcctcctgc       180
```

16

```
tcagacccac cttcatgccc ctaaaccaat ctgcatcatg cctgtttcag agagtcatgg          240
gaagatgggc agtgcctcca ttgtcaccat tnccccacac ctctgcacac ttctgcccct          300
tcccctctag acgccacaac ttcacagtct tactgttgta aatattcctg cacagttagt          360
aatgatcaaa tgatcctgtg gtcagaggcc tctttggcag tgtcttctta cccttaagaa          420
aggtcatgaa atccagaagg ggcaaccttt ccaggagagc tttggagtca tttctgtgtg          480
agacactatt gcataatcct gtaagattgc ttttatattt aaggaatgat gttacttaac          540
aaatgaacaa aaaaaattgc aaataaattt tttaacaatg tttaaaaaaa aaaaaaaaaa          600
actcga                                                                     606


<210> 37
<211> 434
<212> DNA
<213> Homo sapiens

<400> 37
gaattcggca cgagcggcac gagctcgtgc cgaattcggc acgagatttc atgggcagtg           60
tctggaactg ccttttagca ttacttgaaa aacatttaat tactttgtac aaattaataa          120
taacagtgct actagatttg ctcagtgcca ggcataagtg ctttacatct gtgaactcat          180
ttaactgaat tggtcccggg gttgggatag aacagctgcc cctccttcag cagcggttcc          240
agccgtccta gctctgcggc ctggccactt tgttttcccc aatccctggy ctccaggagc          300
agggctctca gctcccctgg ctctcacgtc ctcacctgag ctgaggagag acagggtgg          360
ctctctccag ctccamamtg gtctgtatcc aggctattyc amcctcattc aaaaaaaaaa          420
aaaaaaaact tcga                                                            434


<210> 38
<211> 778
<212> DNA
<213> Homo sapiens

<400> 38
ggttctctgg ccaagaggag caattttcgt gccatcagca aaaagctgaa tttgatccca           60
cgtgtggacg gcgagtatga tctgaaagtg ccccgagaca tggcttacgt cttcrgtggt          120
gcttatgtgc ccctgagctg ccgaatcatt gagcaggtgc tagagcggcg astggcaggg          180
ccttgatgag gtggtacggc tgctcaactg magtgacttt gcattcacag atatgactaa          240
ggaagacaag gcttccagtg agtccctgcg cctcatcttg gtggtgttct tgggtggttg          300
tacattctct gagatctcag ccctccggtt cctgggcaga gagaaaggct acaggttcat          360
tttcctgacg acagcagtca caaacagcgc tcgccttatg gaggccatga gtgaggtgaa          420
agcctgatgt ttttcccggc cagtgttgac atcttccctg aacacattcc tcagtgagat          480
gcaggcatct ggcacccagc tgctataacc aagtgtccac caactacctg ctaagagccg          540
ggagcatgga acgtgttggg atttagagaa cattatctga gaaaagagtt cacttcctgc          600
tcccaggata tttctctttt ctgtttatga agtacaaccc atgctgctaa gatgcgagca          660
ggaagaggca tcctttgcta aatcctgttt gaatgtcatt gtaaataaag cctctgctct          720
cagatgtaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggggggc          778


<210> 39
<211> 702
<212> DNA
<213> Homo sapiens

<400> 39
gaattcggca cgagctgggt catggatttt gagaatcttt tctcaaaacc ccccaacccg           60
gccctcggca aaacggccac ggactctgac gaaagaatcg atgatgaaat agatacagaa          120
gttgaagaaa cacaagaaga gaaaattaaa ctggagtgcg agcaaattcc caaaaaattt          180
agacactctg caatatcacc aaaaagttcg ctgcatagaa aatcaagaag taaggactat          240
gatgtatata gtgataatga tatctgcagt caggaatcag aagataattt tgccaaagag          300
cttcaacagt acatacaagc cagagaaatg gcaaatgctg ctcaacctga agaatctaca          360
aagaaagaag gagtaaaaga taccccacag gctgctaaac aaaaaaataa aaatcttaaa          420
```

```
gctggtcaca agaatggcaa acagaagaaa atgaagcgaa aatggcctgg ccctggaaac      480
aaaggatcaa atgctttgct gaggaacagc ggctcacagg aagaggatgg taaacctaaa      540
gagaagcagc agcatttgag tcaggcattc atcaaccaac atacagtgga acgcaaggga      600
aaacaaattt gtaaatattt tcttgaaagg aaatgtatta agggagacca gtgtaaattt      660
gatcatgatg cagagataga aaaaaaaaaa aaaaaaactc ga                         702


<210> 40
<211> 639
<212> DNA
<213> Homo sapiens

<400> 40
gaattcggca cgagtattaa gtcaaattgc tgtattctac gtgttagagt gagttcaaaa       60
gatccattgt attactgaat aggcaaaagt tttaatttca gaggatgaaa ctgatatatt      120
actgccacct tgtggatatt ctgttattac aggctattat aaaargcaat gcgggtatgt      180
aatctgttct aacaagaagc atttcctttt tttgtcgttt ttattattgt tattattaca      240
ttttaagttc tgagatacat gtacagaacg tggaggtttg ttacataggt atacacatgc      300
catggtggtt tactgcaccc atcaacccat catctacatt aggtatttct cctaatgcta      360
tccctccccc agcctcccac cccttgacag gccccggtat gtgatgttcc cctccctgtg      420
tccatgtgtt ctcattgttc aactcaaaag aaaaacagaa gcattttctg ctttcccaat      480
ttcttaaata caatgcaact ttatgtttaa tttaactaac ttaatttttt gagacaaggt      540
ctagctctgt tgcccaggct ggagtggcgt ggcgtgaata tggttcagtg aaacctccac      600
ctccctggct caagtgatcc tccttcctca gcctctcga                            639


<210> 41
<211> 532
<212> DNA
<213> Homo sapiens

<400> 41
atggctgctt tcaacccgaa cgcgtccatc cttcaagatc aagacccatt ccatagttca       60
acaagtagtt ggtgatgata gagtgccctg actgggccag aacagcctct ttagccaaac      120
agcgcaggaa agtctttaaa cagatgctca gctcctttct tcattttcac tttaattcca      180
tgatgcctct gtgtccctct gacgacatct ctcctggggt ctgggactct gctggtcttc      240
catgcctact gagaaggctt cctggccatc atcaggcagg aaaacctcaa agccctccgt      300
cctcaacgtg ggatccctgg ccagcagca tcagcctcac caggaaacct gttcttctgc       360
tcattcttgg gccccacccc aggcctattc aaagaaagac tccaggggca gcgcttggca      420
gcctgtgttt ccaccagatc tgtgtgaaaa ctcaaatgaa ccagcccagg tgatgtgacg      480
caggaagtgc aaggctgaga gccagtgtct aaggcaacct cgtgccgaat tc             532


<210> 42
<211> 644
<212> DNA
<213> Homo sapiens

<400> 42
tcgagttttt ttttttttt tatttattat tttactttaa gttctgggat acatgtgctg       60
aatgtgcagg tttgttacat aggtatacat gtgccatggt ggtttgctgc acctatcaac      120
ccgtcatcta ggtttatgc cccgcatgca ttaggtattt gtcctaatgc tctcccgccc       180
ctttcccact aacaccctcc tgagtttatg aatccttgca gatatgtttt atgtatatga      240
tcatagtatg tatgtagaca cacacacaca cacacgtt ccctctctct acacaaatgg        300
taacatacta aagatactct tctgtacctt cacagtacaa gtaccatatt ccccacttag      360
cacttggcaa aggccaaagc cagttaaggg cagggtgagc acttggcctc caagctctat      420
gtccagtgct cgctccccac agggcccta actcacccac agaagcggac tcagccccag       480
gctacgtcta acaaccacac acaaaagcag caagaaatgg cccatgctgc cttctgggca      540
ggacattcca tcctgcagaa ggaacctta ggctcactcc gccacctggg aagccaggct       600
gccaggggat ggggcaggcg gttggactca ctcgtgccga attc                      644
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18

<210> 43
<211> 905
<212> DNA
<213> Homo sapiens

<400> 43
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gaattcggca cgaggtgatg aataaataaa tcaacagaga ttttaccatg tttttttttta      60
aactgatcta gtttatcact ctcttatctc tacaatttat ctttcactca aagaactaaa     120
gttatcttcc aaaaacacag aatgaatcag ctcactctcc tcaagactct taaatggtcc     180
ttcattactt gttgagaaaa gcccagactt gtttagtgga gcaattaaac tccccacaat     240
ttatctgcca gaagactttc tggaaccatg tatggttttt ttgccctcca acttacagtc     300
ttattggtcc attatttttt tctcatcatg ccacacattt ttgtgtcagg taattttagt     360
cttttggcct tgttcttact atcagccaac ttcatagttg aagtccagag ttggttgttg     420
ttgttgttgt tttttatcka tttaggtagg agttacaatt tttatttgct ttgtgacagc     480
attattttct gacacatttt cttcatattc ttttaaagag tttctttttt aaacccatgt     540
tattcaaggt taaacaaata acgagtttct ttgtttggat gttatgctta cacttacttg     600
aatatgttgt tttttttcca gactagccat tagcaagatt cctgtggagt gagggagtgc     660
ccagggtagt tctccagatt attctgctca aattcttcct cttctcatgc tgcagtgatg     720
aattatttct tcaaaactat gaccccactg tgtagctcca cctttccttg ttctcacaag     780
agtgtacaaa atcgttgagt cttctgagcc atggctaaca agaatcctag ctactgcctt     840
ccactatatc tttcccttt taaaaggagc attttctgag tttagtcatc tcaggccttc     900
ctcga                                                                 905
```

<210> 44
<211> 413
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (409)
<223> n equals a,t,g, or c

<400> 44
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gaattcggca cgagtgcagc ttcattttgg gctgccttag ccatgaagct ccttttgctg      60
actttgactg tgctgctgct cttatcccag ctgactccag gtggcaccca aagatgctgg     120
aatctttatg gcaaatgccg ttacagatgc tccaagaagg aaagagtcta tgtttactgc     180
ataaataata aaatgtgctg cgtgaagccc aagtaccagc caaaagaaag gtggtggcca     240
ttttaactgc tttgaagcct gaagccatga aaatgcagat gaagctccca gtggattccc     300
acactccatc aataaacacc tctggctgaa aaaaaaaaaa aaraaaaaaa araraaaaaa     360
aagaaaaaaa actcaagggg gggcccggta cccattcgcc ctatgtnnnt cgt           413
```

<210> 45
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (472)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (479)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (493)
<223> n equals a,t,g, or c

<400> 45
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ccgtgatgtg gcgcctgcac antcctttcc ctttcggatt cccgacgctg tggttgctgt      60
aaggggtcct ccctgcgcca cacggccgtc gccatggtga agctgagcaa agaggccaag     120
cagagactac agcagctctt caaggggagc cagtttgcca ttcgctgggg ctttatccct     180
cttgtgattt acctgggatt taagaggggt gcagatcccg gaatgcctga accaactgtt     240
ttgagcctac tttggggata aaggattatt tggtcttctg gatttggagg caatcagcgg     300
acagcatgga agatgtgtgc tctggctcgg ataagagatg ggacatcatt cagtcactag     360
ttggatggca caaggctctt cacagacgca tctgtagcag agtggawctt gtactaactt     420
atgatagaat gtatcagaat aaatgttttt aacagtgtwa aaaaaaaaaa rnaggrggng     480
agtgggtggg gtngag                                                     496
```

<210> 46
<211> 1915
<212> DNA
<213> Homo sapiens

<400> 46
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gaattcggca cgagcttaaa tgttcgacag ctcaaagctg ggaccaaatt agtgtcctca      60
ctagcagaat gtggggctca aggagttaca ggactgctac aagcaggagt gatcagtgga     120
ttatttgaac ttctgttttgc tgatcacgta tcatcttctc ttaagttaaa tgcttttaaa     180
gctttggaca gtgtcattag tatgacagaa ggaatggaag cttttttttaa gaggtaggca     240
gaatgaaaaa agtggttatc aaaagcttct ggaactcata cttttagatc agactgtgag     300
ggttgttact gctggttcag ctattctcca aaaatgccat ttctatgaag tcttgtcaga     360
gattaaaaga cttggtgacc atttagcaga gaagacttca wctcttccta accacagtga     420
acctgatcac gacacagatg ctggacttga gagaacaaac ccagaatatg aaaatgaggt     480
ggaagcttct atggatatgg atcttttgga atcctcaaat ataagtgaag gggaaataga     540
aaggcttatt aacctcctag aagaagtttt tcatttaatg gaaactgccc ctcatacaat     600
gatccaacaa cctgttaagt ctttcccaac gatggcacga attactggac ctccagagag     660
ggatgatcca taccctgttc tctttagata tcttcacagt catcacttct tggagttggt     720
taccttgctt ctgtcaattc cagtaacaag tgctcaccct ggtgtgctgc aagccacaaa     780
agatgttttg aagtttcttg cacagtcaca gaagggtctt cttttttta tgtcggaata     840
tgaagcaaca atttattgat ccgagctctg tgtcactttt atgatcaaga tgaggaggaa     900
ggtctccaat ctgatggtgt tattgatgat gcatttgcct tgtggctaca ggactcaaca     960
cagacattgc aatgtattac agaactgttc agccattttc agcgttgtac agccagtgaa    1020
gaaacagacc attcagatct cttgggaacc ctgcacaatc tttatttgat tacttytaat    1080
cctgtgggaa gatcagctgt tggccatgtt tttagtctgg agaaaaatct ccaaagtctt    1140
attactctaa tggagtacta ttcctcaaga tggaatacct ccaccaaaac ggccactcaa    1200
agtatcacag aagatttctt cccgtggtgg gttttcaggc aatagaggag gacggggtgc    1260
```

20

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tttccacagt cagaataggt ttttcacacc acctgcttca aaaggaaact acagtcgtcg    1320
ggaaggaaca agaggctcca gttggagtgc tcagaatact cctcgaggaa attacaatga    1380
aagtcgtgga ggccagagca attttaacag aggccctctt ccaccattac gacccttag     1440
ttctacaggt taccgcccaa gtcctcggga ccgtgcttct agaggtcgtg ggggacttgg    1500
accttcctgg gctagtgcaa atagcggcag tggaggctca agaggaaagt ttgttagtgg    1560
aggcagtggt agaggtcgtc atgtacgctc ctttacacga taaaaatcct tttgggaaca    1620
tcttaactgt atatgaacat ttcacgagga caataaaaat aagacattga aggaccaatt    1680
tagacttagc agttatctgg agacatctga gagaatattt ttatctgaag aaagcagaat    1740
ttgtttgata cctaacaaga tttcaataaa aatccaaact ttgtatgtac gtttgtatat    1800
attttccctt ttttgtatga ctatttattt agaaaatttc taggtgaaaa actaaatgat    1860
gttttgtatt tttcttgcct atagcacaga tattctcaaa ctttctcagc tcatg         1915


<210> 47
<211> 1134
<212> DNA
<213> Homo sapiens

<400> 47
tctgaaggtc tcagcttcct agatgttcta cactcttcct gaccattttc actgaaccct      60
atttgattta ctgaaagcat atttactaat tgtttgcact taaaggtgct tttatcctag     120
aataaacaat gcttttaaaa caattcacta ttctaaattg atactggctt aagatgttgt     180
tccagtgtca ggtattgtta tcgatttttt ctttcctaga acctgtcctt tccagtggct     240
ccagtagact tgtatttat aatctttcaa atattatgta gcttgttaaa cttcccatca     300
tgatcttgtt cagtttctca actcatttgc aaaagagatg actagcatgg gagcctggat     360
tccagtatct gtttagtgc cttattagtg cctcttagct taggttcttt tgatgattca     420
gcgtccagat aatccaaggg agtgactgta atcataggggg tttctagtag aatgcaatca     480
tgagcccctt aggaagtttt ggtcaataat aaaccacaca tagggtggtg gtcccctaag     540
attataatga agctagaaaa ttcctcttcc ctagtgagtt gtagccatcc cacactatag     600
tagtgcaacg cgttactcac tgtgtttgtg atgatgctgg tgtcaacaaa cccgcactac     660
cagttgtata aaagtatagc atgtacatac atttatatgt agtacatata ttgataataa     720
atggctgtgt tactggctta tgtatttact atgtttttta attgttattt tacagagtac     780
atcttctact tattaaaaga agttaactgt aaaacatcct caggcaggtc cttcagggggg     840
tattccagaa aaaggcattg ttatcgtagg tgatgacagc cctatgcacg ttttttcacca     900
gtgggatgaa atatggagat ggaagacagt gatattgatg atcctgatct ttgcaggcct     960
aggctaatgt gtgtttgtgt cttataagaa aaaggattaa aaaagaaaga atttttaaat    1020
ggaaaaaagc ttatagaata tgaatataag gaaagaaaat atttttgtac aactatacaa    1080
tgtgttggtg ttgtaaacta aatgttatta caaaaaaaaa aaaaaaaaac tcga           1134


<210> 48
<211> 1199
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (469)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (582)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (630)
<223> n equals a,t,g, or c
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21

<400> 48

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gaatggcacg agcaatggct ctgttagtcc tgactctgta ttgcattctt tttttaaaaa      60
tctacatgcc tgtcccatct cactgtgagc aattcaaagg caggaattaa gtcttattaa     120
tttctctctt ccgttgccca gcatagtgac cagaacagag ctcaataaaa tgtgttgaat     180
agataaatgg gctgttaaga gaaaaacttt agcagaatta aatttaaagg agtttaattg     240
agcaatgaat gattcacgga tcaggcagcc cccagaatta ctgcarattc agagaggctc     300
cagggtacct catggtcaga acaaaaaaag ggaagtgacg tacagaaatc agaggtgagg     360
tgcaraaaca gctggattgg ttacagcttg gcatttgtgt tatttgaaca cagtctgaac     420
actcagcact gtatgaatgg ttgaagtgtg gctgctgaaa ttggctgana ctcagctatt     480
gttacaggct gtaatcctaa attagggttt caatcttgtc tgcacactaa ggtaggttgc     540
agttcgtcca caaggactta aatacagaag tatggagtcc tnctcaggcc atatttagtt     600
tgctttaaca aggcatagca gtgataagtn ccagagagag gtggtcagca cgattcatca     660
ctgtcctcag acaagaagag gatgaggagg gatgagccat ttgtgcctat tttgkacctt     720
tttggcaaag tcatgattac ttagtcatgt wacatgtaac ttagcatgac ccatgggtac     780
agaaactagg tttaattttt ttatccaaca gtgamgtttt ccatacttca ctcaagtact     840
tagtaattgc tgtagctttg cttcattgca gcggcttcat agatcatggc tgttgttcat     900
cgcttgtggc gtgcctggga aatcaatagc taaaaaygtt ttgtgaaccc ttagtagttg     960
ttacctgggt aggtttggaa tgttccagga gaattaatga acamtcaggt gatmgttttg    1020
tcattttaca gggaataata agcaaatgcg tgtttggaag tgtgattcta tcaaatctgt    1080
ttataaataa gtgcatattt gccatttaaa gtaatttttt tatctgtgac ttgggcttca    1140
tgggattagc tataatgaca cgtctgggag tctcctcaca attagaatga aatcctcga     1199
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<210> 49
<211> 1544
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (8)
<223> n equals a,t,g, or c

<400> 49

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natgcttnca actatttata atgcatcaat ttgaacttag arggtrggag atcrgatcat      60
atgtgggaaa atgtaaaagc agggatatca gtgggcatta gaataaaaac tagggataca     120
ataacttctt tgcatatgac aatacttatt tgtatataag agaaagaacg aaataacctt     180
tattgaaata aagatactat gcaagaaaat gtacagttgt cgaagtggag aaaatgagga     240
tatattcttg cagacgagct ataggtcata catgaatgtc tagtgagaca ttcaaaattc     300
gtatagggtg cagagtaatt tcttattgtg aggaactgtc caatgtattg caagatgttc     360
tgcatacttg gctctcacat actaaatgct agtagcgccc ccaccccac gcccagtcac      420
ggtgacaacc acaaaccta tcagatctat tcacctttt cagagcagat attttgtaac      480
attctctttg ctgacctgaa atgactcata gataatacaa tctacttaca cacatgaatt     540
tcttaaaaaa atcaatttaa tgccctaact ctcttattaa ggagaaatag aaaagaagaa     600
atttataatg aaaagaagat gaatttcatt atgtaaacgc tcaggcatga ctacgctgtt     660
tgaaacagac agatgtttac tcttccttgt aatgagtagg tttggattta agagccgatt     720
agaggctact tcctgtaaac aagtacagga aaatgaaact agacgggtgg gggacactag     780
aatgaaaacc agtgttaggg taaagacaaa acagactatg tacataatct gtatatggga     840
aaagaaagag cgaaattacc ttacttaagg ataataggac aagacaaatt acagattgtc     900
tcagagaaaa caaatgagtt actctctcgg acaagctgta ggtcctacct aaatgtccag     960
caggacatta gacagtcgta cagggtacag aataattctt cgttgtgtgg cactaaccca    1020
cacactgcag gacatcgttc tccctggctg catccactca gtgctgggag tagtccccag    1080
ttattatgaa accaccaata acccactgac cacagtgaga accactgatt ttttccactg    1140
acctactgaa tatctagcat ccttagattg gctcaactgt tactttccta aggagtcctt    1200
ctacagaata ggtcagatct tggcctccca aacccctat ttttaaaata ctttgcgcct     1260
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22

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tgctttgata atttgtatta tgtatccaaa ctgaaattat ctgctttctg cattagaatg      1320
taagcccct gagggttgag tcagtctgtc ttgtttgctg tgccacgcct gatgcccagc      1380
ccagcagcat gctttgtaca ctgatatatt gggtaaattt tgttgaataa attaagctca      1440
actatttgta tttcaatagt tgagttgtat tgcttcctgt tcttcaagct taatttgaac      1500
tgtctaataa aaagaagtaa ttaaaaaaaa aaaaaaaaac tcga                       1544


<210> 50
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (66)
<223> n equals a,t,g, or c

<400> 50
ncggaagtcg gcgncacgta gtagggaaac ctgggacgcc gtgcaggtac cgggccggaa        60
ttcccngggt cgacccacgc gtccggtcaa taactgtcat agtgaaaatg tggtttttaa       120
gagtagtagc tacttatggg ggtgtagaaa gaatggcctc tctcttagac aatttcattt       180
taaacatcat agtcatcttt tgcatagtga ttgactccta tctttgtggt ttcatgtatt       240
tctttgtgat tgattcccca gtgcctgcct gcagtccatt gcaactctcc caaactttaa       300
tcctgcagct tcagcccact gctagatatt tccattgatg acctgtcatc tgaaacctag       360
cattcatcat gtgctgtgtt gtataattgt atgtctgtgt tattgtatta ctttcccaag       420
taaagttttt gtgtaaggac ttaacactgc tttgaatccc ctgtacctat tatactgctg       480
tgtacaaagt aggagttcaa atacatgtga tcacaatagt cttccattca taactcatca       540
gcagctcagt ccttcttatg tctagtctca gttcattcag ccaaagctca tttttgtcct       600
atccaaagta gaaagggttc ttttagaaaa cttgaagaat gtgcctcctc ttagcatctg       660
tttctgactc ccagttattt ttaaaataaa tgatgaataa aatgccaaaa aaaaaaaaa       720
aaaaaaaaaa gggcggcc                                                      738


<210> 51
<211> 617
<212> DNA
<213> Homo sapiens

<400> 51
gaattcggca cgaggcggaa gatagattaa aatgtctcta cttctctttt taaaagttca        60
tctttttagc ccttctacaa ttttcaaaag aaataattag atggtcgctg taacatttat       120
atgaagaaaa tagtttgaga caacctaaat atgtcaatac trgawtaatt attaaaataa       180
wtcatggccc tgtcatataa twgaatacta tggagtttgg aagaaagcat gatgtagaat       240
atttaattat atgggaaaat aatcagtaaa tcttttaaa acagaaggta aaactataca       300
tagttcaata tagtaaagag ggccgggcac agtgctcacg cctgtaatcc cagcactttg       360
ggaggccaag acaggtggat cacctgaggt tgggagttcc agactagcct ggccaacatg       420
gctagtctct actaaaaata caaaaatcag ccaggcatgg tagcaggcac ctgtaatcca       480
agctacttgg cagggaaggc aggagaatta cctgaaccca gaaggcagag gttgcggtga       540
gccaaaatca tgccactgca ctccagcctg ggcaccagag tgaaactctg tctcaaaaaa       600
aaaaaaaaaa aactcga                                                       617
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23

<210> 52
<211> 1448
<212> DNA
<213> Homo sapiens

<400> 52
ctcaggggta cagtaccaaa ccaaggttga tggtaccact taaaatggac tctatcacag   60
tgcacataag gagcaccaac ggacctatcg atgtctattt gtgtgaagtg gagcagggtc   120
agaccagtaa caaaaggtct gaaggtgtcg ggacctcttc atctgagagc actcatccag   180
aaggccctga ggaagaagaa aatcctcagc aaagtgaaga attgcttgaa gtaagcaact   240
gatggcattt gagaatttat gtatcactga gttttttggg aatatcttcg tggagaatta   300
cgcatcaaat ttgattctca gagcaataaa ttatccatga agtgctctcg ttctcagtag   360
cggcatcatg gccagtagtg tctttgagga gttcaccact tagattactg agtaattgtg   420
gtttccacat ttgaaaacaa ctcctttat aattattcac tgcttttgt cagtgaaata   480
gacatcttgc ctcctgaagt agcttcatca cagagtgtca tgaagacaga cagtcaggct   540
gaaatggaca gttctttgtg gactctaccc ttcccttcaa ggagtatgtc atatatcaca   600
aaagaaattg ccttacactg gttcatgttt gcagttactg ttgtacattg catagatgta   660
cacacgaatt taaatgtgat gtctttgtat atatctgtat aatgttgaga ttacttacga   720
aatatgtctg agtgacactt ttcacccttg tacagccaaa ataatgtata tatggaaagt   780
gacagacaaa ttctctaatc tctttggtay ctataactta ttagaatcct ctggatgagg   840
gttagaagag actttttcca aacttctaca tgtagaagta tcataaatgt gctacacatt   900
tatgtttgtg gatttaatta aagtatttta atatggtttt cagtgctaaa attggagtca   960
gatacttctt ggttttaagc tgtctaccta attgctgtct cccagcagac tggtggcatg   1020
cccagtggct ttgggggcaa ggatagaaat gccatcagga aatagctgaa ttcattgtga   1080
aacatgaatt cagtcatggt gataattgga aactcctttc aggttttgc aagtagattt   1140
tgtaatgttt gtgtatgcag ccttgctgtt gagtcagtcc aagggggtttt acttaggaca   1200
agttgtacct tgccctctct ccagctctgc tcccacattt tcacatacct agctgtttct   1260
acctcattgg gtaagtcatt taccactctg tgcctcagtt tactctgtag tttaccatta   1320
gactgtgagc tccttgaggg actttgtcat aatcactgtt acatcccagt gcctcacacc   1380
atgcctggcc cttaagaagt gctcaataaa tgtctgaaca aataaaaaaa aaaaaaaaaa   1440
gggcggcc   1448

<210> 53
<211> 485
<212> DNA
<213> Homo sapiens

<400> 53
gaattcggca cgagtaccct gttctaatac agttcagtgt gtcttataga aaatcattta   60
tcttttgcct ccctgaaatg attttaactt tttgtgtttt tctccttttc tcatttcata   120
atgcaattaa atctacccct tttctcaaat tttaaaaaca catgaataaa atatctttta   180
cttaaggtca aacacaaatg gagtggcgta ggctggtcat ggtggctgac acctataatc   240
ccaacactgt gggaggccga ggcaggtgga tcacttgagc tcacaagttt cagagccgcg   300
tgagcaacat ggcaaaaccc cgtctctaca aagaataaa aaacttagcc aggcatggta   360
gctactcagg gaggatggct tgagcctggg aggcagtggt tgcaatgagc caagatcgca   420
ccactgcact ccagcctggg stataaagcc agaacttgtc tcaaaaaaaa aaaaaaaaaa   480
ctcga   485

<210> 54
<211> 1750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (24)

24

<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1287)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1392)
<223> n equals a,t,g, or c

<400> 54

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agaaagtgaa agctgtttgc aatnatataa attnctaatt tggaaatcat gacaagcagt      60
cttaagaaca aagttaaaat taaaaagtct ttatccaagt caccaatgaa acaggattct     120
gattcattaa tcatgtcttg cccacttttt tcaacaaacc tgacgtccta taatgagcta     180
tacagtgtga ggcatatttc atagcaacgt tggttgattg ccaaggagac tctgccaccg     240
ttctggataa gctcatgttt cccttttcct tggctgctaa tagaagggca acttacagtg     300
cagggtcaag agcaagaagc tgggggagta gaggctatac atctagccta ataatagaga     360
tctgaggtgg tyaccaggag actacgttct tttgattcca ttcctcagca gcaaaagtac     420
ttgagttcaa atgataaaac ttgaagttgt aggcttggaa gagtatcagc tcagtatatc     480
cttccttgca taaatacaag ggaaaggcca aggaataatc agcattaacc tgccaggtcc     540
aagggtcttc tatccctgac ttcatctgag tcacaagatt tctctaataa gagaaacttt     600
gctactctga ggaaaattat cccttatggg agcccccagt tcagaggtaa gaacagttct     660
ttcacgtgga ggtccaaaat tctggacttc tagaaacaag tgaagtgtgc taaagtctcc     720
tatttattgt ttctcttcca gtattgtgcc atcgattctt gcataaaatt ctggaatgct     780
ggctcttcat ggctttcctc tgtaactctg tggtcaatgt catcagtatc gctgtctgct     840
tcctcatcct cttcatccaa ggttcctcga gtcaggatca aatcagaagg gtgcagcaca     900
ggagataagc tgtctttggc agtccctgca tccaaggcta cagaacccat atcttttcga     960
aggcgttcca gttgttctct ctgctgttgg ctctctgcgt tggccagtga ttttttcaga    1020
cgttcatatt caggacgata ctccctttca tattcttcgg cagcactggt aacttgcaca    1080
aagagttcat ctaatccagt acccagaaca gcagagacac ccaccaccct gagtgagctg    1140
taaaactcat ctaacaccag gctcattgaa cgagtcaggt tatgacgtat gtagtctctt    1200
gattcaaggc atcttggaaa gcctyaaaat cctgcatcca ttccactgca aagctgtggt    1260
caatgatgtc agttttattc atgcccncaa tgaaagccag cttggttttg tataagatgc    1320
tgcaggcata gagcatgttg cacatgaagg tcactgggtt ggtacttctc gatgtgtcca    1380
ttacatagat gncaactgtt ggaaatgagg atgcaagggc ttcagtgata attgtcccag    1440
aagctgacca ggtgaatacc tcaatctgtc caggtgtgtc aatcaacaca tatttggaca    1500
tgttctgggc cttctcaata aatttcatca ccaatattgg caggaaaggg aacttcatgt    1560
actgctggat ccaggttgat cacatacggt ggagtgcctt gggcatgcag gtgtcctgtg    1620
agcctctgta caaaagtggt tttcccggat cccgccattc ccaacaccaa cagacacact    1680
gggtgccgcg gaccccagga agcctggagc tcagcggcag ctgcggacgc cgccatcttc    1740
ctcctggcaa                                                           1750
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<210> 55
<211> 975
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (970)
<223> n equals a,t,g, or c

25

<220>
<221> misc_feature
<222> (973)
<223> n equals a,t,g, or c

<400> 55
gggtcgaccc acgcgtcsgt gcttaccagc tctaggccag ggcagatggg atatgacgaa   60
tggactgcca gctggataca aggatgctca ccaagcacca agttctcaca agttatttta   120
tgtgactttg caggaactga ggcattatat ctgaggacac caggggaaaa gtgtggcatc   180
tcagggaaat acagccctgg gctgtgtcta cacacaccat gagagtgctg atgggggcgc   240
aatagtcttg aaaatgtata aagtgtccag gaatggaagt gctctttgat tcattattat   300
tttcttcctt catattcccc tcccagagtc tcctatctag gacatcagca ttctcacaca   360
agcctaatgg cttatctgag taagcagggc ttagaaattc actttcttga tactcagtct   420
tgccttctaa acactccttg atcttgccta cctctcccct tttccacatg tctttctcctg   480
taggaacact ttctccattt attcctgcct atccaattct tccctatatt tcctggacca   540
gctaaagtcc agtgtttcca gagacttttg aaagtcaact tacactttt ccttcttcat   600
tcacaaagct cttcttccct gggccctggt atgtatgcct ttctctccta ctgtctaata   660
gcacctcgta aattgtcaat gaacttttct aaggggtatt cttgaattcc caactagatt   720
gtgagcttct ggaagacaag gctatgtctt tgattgttgt ctcccctacc acagcccagt   780
actttagtta cagaaaataa taaatattta ctgattgatt gactttcctc ttgtccacta   840
gctttagggt ttgggggcca aattytaccc tgggattttk aaaaattcaa actgtgaaca   900
ccacaatgtt atagagcata ttaggtagta gccagcatga agggatgttt tcttcctgag   960
aaacagtgtn aangg   975

<210> 56
<211> 711
<212> DNA
<213> Homo sapiens

<400> 56
atagggcgat tgggtacggg cccccctcg agtttttttt ttttttttt tttagagaca   60
gagtcttgct ctgtcaccta ggctggagta cagtggcgtg atcatagctc actgtaacct   120
tgaactcctg ggcttgagca accctcctgg cacaatctcc ttgaatgatg ggtcccaaga   180
gccagacaga acggacttcc tcccttatgc ctcatcaagt tagagagaga agagctcaca   240
tcccccaaat gcctatgaac acataactct actgattcct gacctgacct gccttggcct   300
caagagggcc aaatgctcaa ttccttgagt tcaaatcttt ttccctgtat tttctcacct   360
gtggggtcca cctctgtccc tctgactcac agaatgtgac tgcccccctc cttcttatga   420
tagtccttca gaggtctgaa gacagaaagc atatcttcct tgagtcttct ctaagttgaa   480
tactcccaat caccccaaac agagtagtgc agtgcaggaa aagtatagtt ttgtgatcag   540
agttgtattc aaaattccat atcacaactt actaactaca tgacctagag tatgttctttt   600
cacctcacag aggcaggagc attgtgagga ttaaagcgcc tagccaggaa taggccatag   660
tatgtgctca ataaatgata cttctcaaga taacaatctc gtgccgaatt c   711

<210> 57
<211> 640
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (21)
<223> n equals a,t,g, or c

<400> 57

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nggngtgacc tatanangta nccttcagta ccgtccggaa ttcccgggtc gacccacgcg        60
tccgaggaga tgcttcaaaa tgtcaattgc tttaaactta aattacctct caagagacca       120
aggtacattt acctcattgt gtatataatg tttaatattt gtcagagcat tctccaggtt       180
tgcagtttta tttctataaa gtatgggtat tatgttgctc agttactcaa atggtactgt       240
attgtttata tttgtacccc aaataacatc gtctgtactt tctgttttct gtattgtatt       300
tgtgcaggat tctttaggct ttatcagtgt aatctctgcc ttttaagata tgtacagaaa       360
atgtccatat aaatttccat tgaagtcgaa tgatactgag aagcctgtaa agaggagaaa       420
aaaacataag ctgtgtttcc ccataagttt ttttaaattg tatattgtat ttgtagtaat       480
attccaaaag aatgtaaata ggaaatagaa gagtgatgct tatgttaagt cctaacacta       540
cagtagaaga atggaagcag tgcaaataaa ttacattttt cccaaaaaaa aaaaaaaaaa       600
aaaaaagggc ggccgctcta gaggatccct cgaggggccc                            640
```

<210> 58
<211> 1122
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (948)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1107)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1116)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1121)
<223> n equals a,t,g, or c

<400> 58

27

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ggcanagcta accgcagtct ctactacttc ctcttcgccc ccaccttgtg ctacgagctc       60
aactttcccc gctctccccg catccggaag cgctttctgc tgcgacggat ccttgagatg      120
ctgttcttca cccagctcca ggtggggctg atccagcagt ggatggtccc caccatccag      180
aactccatga agcccttcaa ggacatggac tactcacgca tcatcgagcg cctcctgaag      240
ctggcggtcc ccaatcacct catctggctc atcttcttct actggctctt ccactcctgc      300
ctgaatgccg tggctgagct catgcagttt ggagaccggg agttctaccg ggactggtgg      360
aactccgagt ctgtcaccta cttctggcag aactggaaca tccctgtgca caagtggtgc      420
atcaggtagg tggggtgtgt gtgtgtgtga tgtggaacat ggctgtgaac ctgaaccgct      480
ttccatgccc cctcctctgc agacacttct acaagcccat gcttcgacgg ggcagcagca      540
agtggatggc caggacaggg gtgttcctgg cctcggcctt cttccacgag tacctggtga      600
gcgtccctct gcgaatgttc cgcctctggg ckttcacggg catgatggct cagatcccac      660
tggcctggtt cgtgggccgc tttttccagg gcaactatgg caacgcagct gtgtggctgt      720
cgctcatcat cggacagcca atagccgtcc tcatgtacgt ccacgactac tacgtgctca      780
actatgaggc cccagcggca gaggcctgag ctgcacctga gggcctggct tctcactgcc      840
acctcacacc cgctgccaga gcccacctct cctcctaggc ctcgagtgct ggggatgggc      900
ctggctgcac agcatcctcc tctggtccca gggaggcctc tctgcccnta tggggctctg      960
tcctgcaccc ctcagggatg gcgacagcag gccagacaca gtctgatgcc agctgggagt     1020
cttgctgacc ctgccccggg tccgagggtg tcaataaagt gctgtccagt gaaaaaaaaa     1080
aaaaaaaaac tcgaggggggg gcccggnacc caattngccc na                       1122


<210> 59
<211> 793
<212> DNA
<213> Homo sapiens

<400> 59
ggcacgagat tttcttcatg cagtattctc agattggaaa catgcttcat gtttcttata       60
aataaccctc aattatgagg gcgtactttt cactttgaag aaaattgact tgcattaaag      120
tggctaacaa ttctttcctg ggcaggatgt aaaattttcc tctcctctaa taccagtact      180
gttgagctca cattctccca cttttcctct tttcaggtgg ttcacgtatt tgggatttta      240
tgaaacctca gaagcagaca tgttaacttt tcttatcttt ttattccctg aggtagtcct      300
ggggctctta agagattaca gttcttaaaa cctggaaagt gacaccagag aggtagatct      360
tagttcccaa aattaaagtt actttctagg gcataaaacc ttttcagaat tcagattaaa      420
ttttatttat tttttctttt ttctgtaacc ttatatttga ggggaaaatt ttattttcaa      480
cttttgcata tatctaattt aacatttggg aaaactgtaa atgggccaaa gtttctccct      540
ttatatgatt ttccagattt ttaccacttt cttagtgcca cttgatgcta ggcattgtct      600
attggagact cactggtacg taactgcagg ttttaccatg gaaccacata tacacatgtc      660
ttggaattga gggttagggt ttccagaagg acttagttgt cctgtgcttt tgtctgcccc      720
atgccaaaga ccactaagaa cagttttgta agtgaaactt gggtctacac gttaaaaaaa      780
aaaaaaaaaa aaa                                                         793


<210> 60
<211> 600
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (547)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (549)
<223> n equals a,t,g, or c

<400> 60
gggtcgaccc acgcgtccgc caaatcccag tctttaccat ttcatatcag gatcgttgtg       60
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28

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tgagggaata acttggtttt ctgtcctcag tttttctcaa tttcaatcca tcttataaat    120
cccagcaaaa ttaattttcc taaagacact tttagaattt ctgcaatagc tccttgagat    180
caggatgcca gggatattca ttctgttcat gacactagct agcacatttg atcagcgctt    240
gttaaacgat tctcaaccca aagatcactc ctagggaaaa aagtctccaa tggcttcccg    300
ttgccttcat ggtattaaac ctgcaattcc agagctcgat atttaaattt tttaggggc     360
tggaatttct cataatactc cttggctatc tactaaacac taagtactag gcatacagaa    420
ataacagata cacttgggtc aggcacggtg gctcacgcct gtaatcctaa cactttggga    480
ggccaaggtg ggtggatcgc atgagctcaa gagttcaaga ctagcccagg caacaaagga    540
tcctgtntnt acaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggcggcc    600


<210> 61
<211> 689
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (309)
<223> n equals a,t,g, or c

<400> 61
tcgacccacg cgtccgattt tctgataaga cgattactaa gacaaacttc tatcctttca     60
cttagtaagc atcatgacat catatataat caacctatct ttcttcttac ctttggcaac    120
tcggaaggtc agtgctaagc cttgtggtta accctagtag tgacatccct tcttatgtct    180
tagtaatcgt cttatcagaa aatatcatat aaaataaaca caaagtaaac tttttactta    240
aaaagatctg tagatatttc actaactcta ttaatgcttt ggtaatagct atttaatcta    300
taatcctgnc ctagatcaag ttttgaggcc tcagtgttat tcattccttg ggctaagagc    360
cactgaaatg ggataattat tggtacagtt acttcctcct tttaaatggt ttctgttctg    420
ccatttactc tttatttgaa attgccttct tttaaaagtt attcttaata ttgtaagcta    480
tttgaaaata ggtgagccat aaaaataaat attaataatg tatttctaat tatcttatct    540
aacaaaaata ataataaata tccactttag aaaatttgga aaatcatgaa ggtataaata    600
ctaaaatcga aattctctat aagatcaata ttcagatttg acctcaggca aacacagaaa    660
ttaaagttaa aaaaaaaaaa agggcggcc                                      689


<210> 62
<211> 676
<212> DNA
<213> Homo sapiens

<400> 62
gaattcggca cgaggacgag gtaaaattat tagaatggag tatgtcatca ggtcttttcc     60
tagtcctttt ctgcttcctg tgtgtctttg taggtttctt tgatttccat tgttggtgtg    120
atattttggt aaaaagcagc tgactcacat cccatccaaa tccccagtgc ccttcagatc    180
cttcacaaat ttggcattca gcccactcct tgccaattgc ttcctttcct cccaattccc    240
acatgtctcc ttcctacgcc atctgcttct cctcccttcc ttcgattagt gctttcgtct    300
gctcttccaa tttctttcat tgttcaatgt cttttgcttc ctcttccccc tcctctcccc    360
tagaggaaat taacatactt aatacagctg atgtcataaa gccccttttc cctaagaagt    420
taaatttctg tttctgcaaa ataaatacat agctctgttg tgtgaaggtc aaaggaaacc    480
tgagtagtaa acctgaaata gatttttttg gggttcatct tacataaagt gtcaatgcat    540
attatgtatt ctatttattt tccaaaataa attttctatt gggatttaa atatggtaag    600
tcaacacaac tttattgtac cagtcattgg attgaataaa tgacttaaaa ataaaaaaaa    660
aaaaaaaaaa actcga                                                    676


<210> 63
<211> 660
<212> DNA
<213> Homo sapiens
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29

<400> 63
gaattcggca cgagcagagg cccggtacct ttaagctcta cctcgccaat gccctctcgc   60
ctagtaatcc gtgcacacag cctgctgttt gccatgcaga atgatggcct caagttcatg   120
gaaatggtgc tccatgtcct tcaggcaagt ataggtgttc tgttgcttat ggtggatgtg   180
ctcgagcatt ttcttgccat gctcattggc aatgcagggg ctcctttgcc actgctggat   240
gtgctgggga aggatgttat tgatgtggct gaaagaagag agagcaagaa atgaaatggg   300
tagatgggga catcagagga atgagaaaga tgagctacca aatggtgact ctatagggta   360
ctgagtggtg gatgagtgca cgttggtgaa tgggtggttg aacagtggac gggtgggtgg   420
atgggtggag gggcaggtgg gtgagtggct ataagggtgg atgagcaggt gggtgagtgg   480
ctatgagggt gaatgagcag gtggatgagt ggctataagg gtggatgagc atcctggtgg   540
atgtaatgtg gatgggcagt tcagtgagtg ggtgactatg acggtggatg ggtgggtggc   600
tgagtggaat tacagatggc atagatcaca ccttactttg cctttgtccc ttaacctcga   660

<210> 64
<211> 735
<212> DNA
<213> Homo sapiens

<400> 64
gaattcggca cgagcttctt ataacctaat ctctgaagtg atatcatcac ttctgctata   60
tcctgttcat tagatgtgag tcagtaagtc cagcccactc tcaagggaag gggtgtgaat   120
atcaggaagt ggggaatcac tggggttatc ttagaggctg ctaccataac ggaggaatat   180
tggcatcttt attttcatta acctctaact ggctttagtg tcacattcta caataaatgt   240
aggcaacaag tcactgtggt atgaacagca cctgtggttt tgtaaccagt ataaatcaga   300
tatttcttat tattttatgg tkgttgtacc tgcctctact taccactact ttggaaatat   360
gggagttatt agmcctactg cactagattt tgttatttaa tatataaaaa gaaattcaca   420
ttactataca acaacttaaa aaatgcttgg acaaaactat tttatttgta acttttgta   480
ttttgtttta tgagatgtaa aatattattc tgagaggtga tccacaggta ttaccaaact   540
gttaaggcgt ttgtgacaca aaaatattaa gaatccctaa gcaagtgata ttcaaagtgt   600
ggttctggga acagcagcat caacatcacc tgggaactag tctgaaacgc aaattatcag   660
gaggttcctt ccctgaccta ctgagtcaga aactctggcg gagggaccca gcaatctgtt   720
caaatacacc ctcga   735

<210> 65
<211> 570
<212> DNA
<213> Homo sapiens

<400> 65
aaacgacggc cagtgaattg taatacgact cactataggc cgaattggtt accggccccc   60
ccctcgagtt gaattagaga aaacgacatg gacacacgtg gagtggtttt aaggagcgga   120
gagtttaata ggcaagaagg aagggagaag acagaaggaa gaagctcctc catatggaga   180
cagagggagg ggggctccaa agccaaaaga ggaggtcccc aagtgcagtg gacaccagcc   240
aagtatatat gcagaggctg gaaggggcga tgtctgattt acatagggct caggggattg   300
gtttgaccac gcatgttatt cacatagccc actaaaaagc tggctctccc accctagtct   360
tttaatatgc aaatgcaggg agccatggat gttctacaca tgtggggata tttggggatg   420
ttctacacat gtggggcggc catgttgcca ggaacatgtg aggcaagggt aagaaggcct   480
tgggaattgc catgttgggt ggacccagtt tctaatggcc tgcatttgca tatcaaaggt   540
tgctcgtgcc gaattcctgc agcccggggg   570

<210> 66
<211> 840
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (326)
<223> n equals a,t,g, or c

<400> 66
gaattcggca cgagcttttt cattatcttt accttaatct cttagcatat gatttatgga   60
ctggaatggt gagtgatatc agtgggcaaa aacaatcatt agaggctgtt aaggaacatt   120
tattgtttat ttggctacct gtctataaaa gtacacatga aggccctaat agcaaaatat   180
caaattatca agtgctttaa agcagaaaat gtcatttgtt tctcaaaact gcaccaactt   240
tatataattg cccttttaat tatccctagt ggcccgtgaa atttgcaaaa tagagcatca   300
aagcttgatt tacttacagt tgcacnttgg cgggatctta atgaatattg tttagtacta   360
atgctgagat ggaatcgtaa atgtttatag tgagggactt acttagaaga gtggggaggc   420
cagtaatgaa actgaatcaa ctgggttctt caagatggaa caatatggcc atattcttgg   480
gcctaacatt ttgaaaaatt cttttttatag tggaatttta tttttaattc aggtctagat   540
gaatacacat taagtttagt tttgcagaat cttttttttt ctgcctagct atcttattac   600
tttccaaggg cttttgagga gtaatttgtt tcctggcaat ttcggattaa aatcacctgt   660
ttcttcataa attgtcatct tcaaggtaac actgagaact ggatctctga aatctcatgt   720
tttcgagatg attttttatag ctgcagacct gtgggctgat tccagactga gagttgaagt   780
tttgtgtgca tcatcatgtg ccattaaatg aaaaaaaaaa aaaaaaaacy cggggggggg   840

<210> 67
<211> 1323
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1086)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1087)
<223> n equals a,t,g, or c

<400> 67
gctgaagatg gggtccctcg cacggcacgg tccatgtccc tcacgctggg aaagaatatg   60
cctcgccgga ggtcagcgtt gctgtggttc ctaagtttaa tgccctgaat ctgcctggcc   120
aaactcccag ctcatcatcc attccctcct taccagcctt gtcggaatca cccaatggga   180
aaggcagcct acctgtcact tcagcactgc ctgcactttt ggaaatgga aagacaaatg   240
gggacccaga ttgtgaagcc tctgctcctg cgctgaccct gagctgcctg ggaggagctt   300
agtcaggaga ccaaggccag gatggaggaa gaagcctaca gcaagggatt ccaagaaggt   360
ytaaagaaga ccaaagaact tcaagacctg aaggaggagg aggaagaaca gaagagtgag   420
agtcctgagg aacctgaaga ggtagaagaa actgaggaag aggaaaaggg cccaagaagc   480
agcaaacttg aagaattggt ccatttctta caagtcatgt atcccaaact gtgtcagcac   540
tggcaagtga tctggatgat ggctgcagtg atgctggtct tgactgttgt gctggggctc   600
tacaattcct ataactcttg tgcagagcag gctgatgggc cccttggaag atccacttgc   660
tcggcagccc cagggactcc tggtggagct caggactcca gcatgagcag cctacagagc   720
agtaggaaac ctcacaccta gccagtgccc tgctctgaga cactcagact accacccttt   780
ccccaagtat aacgtcaggc ccaagtgtgg acacactgcc gcccatccca tcaggtcatg   840
aggaagggtt cttttaacac tcggcacttc tgtgggagct attcatacac agtgacttga   900
tgttcttgga ggatcaacaa aactgccctg ggaaagcatc cagtggatga agaagtcacc   960
ttcaccaagg aactctattg gaagggaagg tctcctgccc ctagctcagg tggctgggga   1020
gaactaaaac accttcactg gtggttgggg gtaaggagcg gggcacgggg gaggaggagg   1080
tagggnncag taaaaaactt actctctttt ttcctctctg taattggtta tcaggaagaa   1140
tttgcttaat gactaacacc ctaagcatca gacctggaat ttggagttgc aaagtgacta   1200
tcttcccatt tcccatctca tttttcaataa cttcagcctc ccattctttc ctttggaatg   1260
agagtttctt tttacagaag taggaaaggc ttctcagaaa aaaaaaaaa aaaaaaaact   1320
cga   1323

31

<210> 68
<211> 712
<212> DNA
<213> Homo sapiens

<400> 68
gaattcggca cgagagcycc ctctccatgg gataccctgt ggggcacttc agagtcccca   60
ccagcaagaa ggctctctct caccagatgt gccccccgcc aaccttggat gtctcagtct   120
ccagaactca gatgagccag ctcccttgtg aagctgtaag aacatggtac ttacaggagt   180
aaggctcatg aagtggagag atgagaagac tttcgggaca gattgtgtgg aggctgtcat   240
tctcctcgtg acattgctgt gggagaagaa ggaggcattc catgttggct tcagtgaaga   300
acttcagtat tttccagaga gaagtactga gaagcttaaa gtatttgaat gggaggagga   360
gaagcaaact acagctactt cagaggataa cactaaacac ctagtccact ctgtatacac   420
tagaggtgct gttaattttc ttgtggagaa ggaactgtct ttagaaaaat atctcaaaaa   480
gccactgaag tagaaagttt cagcatgctg aagatggaac ttgagaagat agaaagttct   540
gggtccttag tggcatgact gagtcgctgg accactgttg gaaccaccct atgtcttagt   600
ttttaaatct ctttactgtc taagacattt ttagtggaag tatttatctc tggcatccaa   660
taagaccttt aaggatttgc agttttaaaa aaaaaaaaaa aaaaaaactc ga   712

<210> 69
<211> 884
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (356)
<223> n equals a,t,g, or c

<400> 69
tcgacccacg cgtccgccgg atggttgcca cccctcctgc tgtaggatgg aagcagccat   60
ggagtgggag ggaggcgcaa taagacaccc ctccacagag cttggcatca tgggaagctg   120
gttctacctc ttcctggctc ctttgtttaa aggcctggct gggagccttc cttttgggtg   180
tctttctctt ctccaaccaa cagaaaagac tgctcttcaa agtggagggt cttcatgaaa   240
cacagctgcc aggagcccag gcacaggctg ggggcctgga aaaaggaggg cacacaggag   300
gagggangga gctggtaggg gagatgctgg gctttaccta agtctcgaaa caaggnggca   360
gaataggcag aggcctctcc gttccaggcc catttttgac aratggcggg acggaaatgc   420
aatagaccag cctgcaaraa aracatgtgt tttgatgaca ggcagtgtgg ccgggtggaa   480
caagcacagg ccttggaatc ccaatggact gaatcagaac cctaggcctg ccatctgtca   540
gccgggtgac ctgggtcaat tttagcctct aaaagcctca gtctccttat ctgcaaaatg   600
aggcttgtga tacctgtttt gaagggttgc tgagaaaatt aaagataagg gtatccaaaa   660
tagtctacgg ccataccacc ctgaacgtgc ctaatctcgt aagctaagca gggtcaggcc   720
tggttagtac ctggatgggg agagtatgga aaacatacct gcccgcagtt ggagttggac   780
tctgtcttaa cagtagcgtg gcacacagaa ggcactcagt aaatacttgt tgaataaatg   840
aagtagcgat ttggtgtgaa aaaaaaaaaa aaaaaaaaaa aaac   884

<210> 70
<211> 648
<212> DNA
<213> Homo sapiens

32

<400> 70
gaattcggca cgaggcaata tttgcctcac ccaacaccac aaagattttc ttctgttttc   60
ttctagaact tttttagttt tagggtttat atttaggtct gtgatccatt ttgaatcaat   120
attagcatat gaggcaaagt ggagatcgaa gttttattt ttccttatga atacccagtt   180
gttccaacac cacttattaa aaacactata ctttatccac tgagtttgtt ttgtaccttc   240
atcaaaaacc agttttcaat atatctgtgg attaaatttt ttatttttat gtttattttt   300
agagacggtc tcactatgtt ttccaggctg gtctcaaact cttgtcctca agtgatcctc   360
ccatcttggc ctcctgagtc gctgggagga tcaggcagga ggatttcttg agcctgggag   420
gttgaggctg cagtgagccg agattgctcc actgcacttc agcccgggca atagagtgag   480
atcctatctc aaagaaaaaa agagttattg tgttatatct tttttaatcc attttctttt   540
aacccttat atccttatat ttaaactaga gtttctgtca agtgcactcc agcctggtga   600
caaagcaaga ctccgcctca aacacaaaaa aaaaaaaaaa aaactcga   648

<210> 71
<211> 547
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (22)
<223> n equals a,t,g, or c

<400> 71
gggcncccca aaaattcccc cnrggttttt ttttttttttt tttgttttca agaagaaaga   60
agcaatgcag caaagtggtg cagaacacag gagctggagc cattcagacc caagtccaac   120
tcttgacctc gcccactttc tctacagtcc tgagcaatta cacctgccaa gcaccttccc   180
aatggacaga ctggcaggcc ctactcccaa caggcatcca gactgagcat caccaaggat   240
gggacaaaca gaagcaatgc aagaggaaat gcgaacacga acatgcacca ctacaccaca   300
acctatggaa acaatcaggc aaaacaagac taggagacat atgacaagaa aacaggcctg   360
gacgcttcaa aaatgccaat gtcacgaaag acaaaaactg ggcatgctct tctggatcaa   420
aggagactaa agagatataa caaccaaaca caataaaact atcctagatt acatcctgga   480
ttttttaaaa gcaaaaaaga acaatttggt aacaactggg gaaagtgtta atgtggctac   540
attttaa   547

<210> 72
<211> 1025
<212> DNA
<213> Homo sapiens

<400> 72
tttttttttt tttttttttt tttttttttt tttttcaaa tccaactttt atttattaaa   60
ttaaaaaaaa aagactccac aaagggcatg atcccttcca ttccacaatg ttctctcccc   120
aagctccagc ggctttaacc ctttaacttg gggccttgag acagcagggg acagaaaagg   180
aggatccaac gttacaggaa aggcacgaag cggctttaaa agtcactgga ggtggagatg   240
ggagcatcca aagtcccagg gtggggtgc gtggatgcac caccagatca gcttgggggc   300
ctctgtcctc ctagctcttt aagttctttc tcaggcttc taggcaccag atctagcata   360
gtgccttgca cagagtaggc actcaataca tacttgattt atttgaatct gatcctagag   420
aaagccttcc ccacccattc ttcaggaggt gcacccccaa accaatgtcc tcctgttaga   480
tgggcttccc caaagagcac atctaagatg gcagctgcaa gctctccata accatggcaa   540
caggggatta acctgatggg gtcatggtgt ctaaggggtg gggcagtgga ggaacctgct   600
ctgcagtcaa gggagatggg gtacattcca gtccttctcc cctccatagg acttgaggtt   660
tcacagcttc tggctggggc tggggatatt agggatcccc ctaatcaaga gataccccat   720

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caactgttta gcagagatgt agctaaccca atttgtagag acttcattac aagagaaacc      780
ctatcaactg agattctgat gatagacatt ctattaacaa gatcttctcc actaacattt      840
tgtctataca gagatgcatt tgactagaat ttccttagca gaaatggatc cacttccctc      900
cccagctcac tctacctgac ccgtcatcat aacttacata aatagaatta ttactattca      960
ttactcctgg tacatagggg ttaaatatac aggcctgggg gcagcctccc tgaccctctc     1020
gtgcc                                                                  1025


<210> 73
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (48)
<223> n equals a,t,g, or c

<400> 73
ctcgaantan ccccactaag ggaacaaagc tggagctcca cgcggtgncg gccgctctar       60
aactagtgga tcccccgggc tgcaggaatt cggcacgagc ttttccaaaa tggctgtact      120
aatttacatt cccaccaaca atgttcaagg atttcatatt cttgacattc ttaccaaaat      180
tgtcacagtt tgtaaaaggt agtctaataa gtggcctaag tgaatgtgac aacacttcat      240
tgaaagcaat cttaggtttt tccaactata gtcaataata acttaattgt acattctaaa      300
ataactcaaa gagtgtaatt ggattgcttg taacttaaag gataaatgct tgaggggatg      360
gatgcctcat tctccatgat gtgcttattt cacattgcat gcctgtatca aaacattaca      420
tttatcccat aatatacaca cttactatgt accccaaaa aataaacatt aaaattaagt       480
tttcaaaaaa aaaaaaaaaa aactcga                                          507


<210> 74
<211> 736
<212> DNA
<213> Homo sapiens

<400> 74
tcgagttttt tttttttttt tttttgagac tgaatttcac tcttgttgcc caggctggag       60
tgtaatggtg caatctcggc ctgggcgaca gagcgagact ccgtctcaaa aaaaaataaa      120
taaataaaat aaaattaaat taaaaaaaaa aaaaaaaagt ctgctttgaa aaccagtatc      180
catagacttc tggcagtcat ttctgggggtt taattttgga tgtgacaaag gtttgtttcc      240
actggactta attttttcac atcgctctaa cttttgaaaa cacagataca gtccttttgc      300
tgaataaaat gaaaactcga gcctaaattt aaaggcatag atatttcctg gacttccagg      360
acagtaatat catgtactac tttgtcaaaa aaattttctg gaggtttttc tagaggaaga      420
aactaagata acaacaacaa aaaagacaaa tccaaatgca ttacttgaag agcgactact      480
catgtttcta gagaattttt tggtcatact atgtcatggg gttatttcct gggggcttca      540
gttctgcttc agaatttctt tagtagttat ctactaccc catctggtaa aattatagag      600
gaagttacag tcgttaaagc ttctgtcaac tcgatttcta aaaattttat gtaaagagat      660
attttaagag aaataagaaa ataggagatc agggcaaatg aatctaaaga tctttagctt      720
tactcgtgcc gaattc                                                      736


                                  34
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<210> 75
<211> 514
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (507)
<223> n equals a,t,g, or c

<400> 75
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aggcagacgt agaactagtg gatccccmgg gctgcaggaa ttcggcacga gccccagcta      60
ggaagaaaga atggcactct tgggcttggc ccagaattag agttattaga gcaagagaga     120
gcttaggaag catgagggca actatagtga ggccttattg ccaggaggga gggtttggt      180
tgctggcgct tgtgtataaa ggggcaagag cagctccttt ggactattcc tgggaggact     240
ctgatgcagg gcgtctgttg ctcccctggg tcacctcctc cctgctcgct gacatctggg     300
gctttgaccc tttcttttt aatctacttt tgctaagatg catttaataa aaaaaaagag     360
agagagagag aggtgtgagg gacaaaatgc aaacctattt cccttgcctc ataggcttct     420
gggatgtcat cacctccagt ttgttggttt tgtttccaac tgttaataaa gcattgaaac     480
agtaaaaaaa aaaaaaaaaa acaaaanaaa aaaa                                 514
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<210> 76
<211> 1203
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1165)
<223> n equals a,t,g, or c

<400> 76
```
gtggactctg gctgtccttg ggtggtttcc atgagcgtgg ccaagactgg gagcagactc      60
agaaaatcta caattgtcac gtgctgctga acagaaaggg gcagtagtgg ccacttacag     120
gaagacacat ctgtgtgacg tagagattcc agggcagggg ctatgtgtga aagcaactct     180
accatgcctg ggcccagtct tgagtcacct gtcagcacac cagcaggcaa gattggtcta     240
gctgtctgct atgacatgcg gttccctgaa ctctctctgg cattggctca agctggagca     300
gagatactta cctatccttc agcttttgga tccattacag gcccagccca ctgggaggtg     360
ttgctgcggg cccgtgctat cgaaaccag tgctatgtag tggcagcagc acagtgtgga     420
cgccaccatg agaagagagc aagttatggc cacagcatgg tggtagaccc ctggggaaca     480
gtggtggccc gctgctctga ggggccaggc ctctgccttg cccgaataga cctcaactat     540
ctgcgacagt tgcgccgaca cctgcctgtg ttccagcacc gcaggcctga cctctatggc     600
aatctgggtc acccactgtc ttaagacttg acttctgtga gtttagacct gcccctccca     660
cccccaccct gccactatga gctagtgctc atgtgacttg gaggcaggat ccaggcacag     720
ctccctcac ttggagaacc ttgactctct tgatggaaca cagatgggct gcttgggaaa     780
gaaactttca cctgagcttc acctgaggtc agactgcagt ttcagaaagg tggaatttta     840
tatagtcatt gtttatttca tggaaactga agttctgctg agggctgagc agcactggca     900
ttgaaaaata taataatcat aaagtctgtg tctggacatc gcctttggga actagaaggg     960
gagttggtat tgtaccagct ggactaagct ccagttctag acctcctggc tcattcaaca    1020
tgcctcccta cctaaataaa agtgcaacac tcagtgcatg tcccagcccc attctcccaa    1080
gcatgggagt gggcgtagga gtggaggagg gggaaggaaa aaggaattac ttcacttaca    1140
cctatgatgc cctttgccca agccngaaga aagcaaaggg gaaaaggggc tgcagggtac    1200
att                                                                  1203
```

<210> 77
<211> 512
<212> DNA
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (483)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (487)
<223> n equals a,t,g, or c

<400> 77
```
gtggatcccc cgggctgcag gattcggcac gagtctgact ggaaggggtg aggtgtgcag   60
ataattttac ttttcaacta cagaaaagat gtatctgggt aaagaaaatc atgcatttaa   120
ctacatcaat gcagcctatg aacaatagcc tgtgaccata actagatatc tcaccaacgt   180
ggcagctctt cctaaccaaa agatcaaatc aaaactctag tggcattttc ctatcactca   240
cagaacaggc taagcttccc acctggagta gacccggagc ctagaactca taaaaatttt   300
taaaaatcaa acaaaacatg aaagtacaaa gtttctacaa aactcttatc cctctcctga   360
caatatttat gatggtggca ttagtgaatt ttactggaaa aaaaaattcc caaaactatc   420
cagctggraa tataagctca cttccaaagg ataaaacagt taagacgaga ttaggataaa   480
ttnactnaca aaaaaaaaa aaaaaaactc ga   512
```

<210> 78
<211> 687
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (57)
<223> n equals a,t,g, or c

<400> 78
```
aattcggcac gagaaaaaat aaaaaaaata agccaggtgt ggtggtgggc acctgtnatc   60
tcagctacgt gggaggctga ggcaggagaa tctyttgaac ctaggaggca gaggttgcag   120
tgagccaaga ttgtsccagc ctgggcgaca ggtgaggctc ttgtctcaaa aaaaaaagtc   180
cacatcttca tgaaccctca gactctggag ttgggtgtcg gctttttttag ccagcttttg   240
tgggaattgc ctttgaccta ttaaagaagg aaagtgggta atggagtccc agccactcaa   300
gagactggat atcccccgag aatggcttgg gttaccagct atggaccctt ggaagatgaa   360
tctaatcctt ctcactggtt tttctttgca aattcatttg cttttatttt tctaataaca   420
ataaactcta ttttccatgt tctcagggcc cctgggtaga cagacacagc ttgatttcag   480
agcagacata ggcgaagaaa acatggcatt gagtgtgctg agtccagaca aatgttattt   540
atatacacat ccaaatttga agagaaaatg tatttcttta ggtttcaaac actgtaatag   600
atataaagca aaaataaaaa cctgttgcaa agttcaaaaa aaaaaaaaaa aaaaaaaaaa   660
aaaaaaaaaa aaaaaaaaag ggcggcc   687
```

<210> 79
<211> 2232
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (715)
<223> n equals a,t,g, or c

<400> 79

```
ctcccaggcc cgcgaacttg gccattcagc cgccgctgtc cccgctgcgc gccctcgcgc        60
ctctgcctga raagccaggc gctgttcccc caccccagaa gaggatggca aaggtggcta       120
aggacctcaa cccaggagtt aaaaagatgt ccctgggcca gctgcagtca gcaagaggtg       180
tggcatgttt gggatgcaag gggacgtgtt cgggcttcga gccacattca tggaggaaaa       240
tatgcaagtc ttgcaaatgc agccaagagg accactgcct aacatctgac ctagaagacg       300
atcggaaaat tggccgcttg ctgatggact ccaagtattc caccctcact gctcgggtga       360
aaggcgggga cggcatccgg atttacaaga ggaaccggat gatcatgacc aaccctattg       420
ctactgggaa agatcccact tttgacacca tcacctacga gtgggctccc cctggagtca       480
cccagaaact gggactgcag tacatggagc tcatccccaa ggagaagcag ccagtgacag       540
gcacagaggg tgcttttacc gccgccgcca gctcatgcac cagctcccca tctatgacca       600
ggatccctcg cgctgccgtg gacttttgga gaatgagttg aaactgatgg aagaatttgt       660
caagcaatat aagagcgagg ccctcggcgt gggagaagtg gccctcccgg ggcagggtg       720
gcttgccaag gaggagggga agcagcagga aaagccagag ggggcagaga ccaytgctgy       780
taccaccaac ggcaktytca gtgacccgtc caaagaagaa gcgtgctagc cagtcccact       840
cgtgtgataa cccattaatc tattaagcca taagtggatt aatccattcc tgaggacctg       900
agccctcacg acccaatcat ctcttaaagg ccccacctct caatactgcc atgcagagga       960
ttatgtttca acctgagtgt ttggagggga tgttcaaccc ataggaagtg gcagtgtgga      1020
agaagtgctg ctgaggagtg agtcactggg ggccattttg agaaaacaga aaggagaagc      1080
cagagttggg gagatgaaag cctcatggct tggtttgtct taaactgccc cacagaaggc      1140
gaaaggaatg cttgaggctg gaccacgtgg gtctagcgtg tactgcgttt ctggtcccca      1200
gcccctgttt tacctttgc tcctcctgcc ccatcaacca agtgtcttca tttgtttcta      1260
tggcaattaa cttttggaga tagaagtccc agcacacgag atccccaagc acattatcta      1320
ccttgctgaa caggctggca gtcacacatg agccaggcga cccaggaaa tgccagccca      1380
aacgaagctg ctgccacatc cagagagggc cggactcttt ctcccttgta gtcactcaag      1440
ctaatcatcc aaaacctgca tcctccatct ccaagcccca tcttattagc accatctggg      1500
attgccaacc aagaaactgt tttatctgag aactctaaga ccaaagaaca agatttattt      1560
cctctactac agatttggca gtgacgcata aaaggcccat ttctcaggaa gaatacatgt      1620
cctaaggatg taaaaaaaaa aaaaatatta gatctagtta ccatggkcta taaactggtc      1680
ttttcccgcc ccaccctgat cctggcttct gtccaccctc aaatagctgt ttgktcataa      1740
accctaaata ctagataatt ctaagttgga aggagacctc taagtcactg tagcatttcc      1800
aaatcgccat tcccaagaga catgtggatc tgacatcgtg ttttattctt gactgagcct      1860
cgcayatttg ttctgtgtgg aacaaaggca aaggcagccc aagaacccgg gtccttgcct      1920
acagtcagct ttaggaaatg attgtgaact tgggaagcat ttaaatagca atactagaca      1980
gtaaatggaa aaggccaaag tcagaaaata agtagggatt ccaaaggaag cctttattgg      2040
ttgggctagg ctgggctagc tgtggaagat agacttctat gtccctgccc caaccacaat      2100
tttactttaa ttattatgta attagtgaat cgatgtctgt caccgtctgt agatgctgag      2160
gtcttgttca tctctttatt tgcattgata tacatagcca ttgctcaata aatatgtgac      2220
ccatgaaaaa aa                                                          2232
```

<210> 80
<211> 455
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (7)
<223> n equals a,t,g, or c

<400> 80
```
ggaattnccg gggtcgaccc acgcgtccgc ccacgcgtcc gcccacgcgt ccgcaaatat        60
attggcagga gattatccag aacatctagg tgcaggtaaa cagttctaag tccaagaagt       120
tatggaggga ttgatgctac cacttctaag tgttatttat tctgaaggaa ctgtatggga       180
ggagatcatt gtttctggaa gacagtacta ttagttatat agatggttct ttctggttct       240
gaatgactaa tcagtcattc agtcaataac actgaccacc tactatatgg tagtcattgt       300
tctaggtatt gagcatgtaa tggtggaaga taaatggcag atgagaatcc tgcatttaga       360
accttaagtc tgattggatg gcggaagaaa tatagttgat aagcataatt ttaggtagtg       420
attcatttcc aaaaaaaaaa aaaaaaggg cggcc                                   455
```

```
<210> 81
<211> 524
<212> DNA
<213> Homo sapiens

<400> 81
tcgagccccg gctggcgggc ctggctgctg ggtctttgtc ttctaggttc ctctttctcc      60
caagaagggc taagtggatc ctgtgaaggg agggatgcag tgggggggaag gagctggccc     120
cagctgggtt tacattctca gctgggacag cagagcctca ctgtgtatgt gtgcagccag     180
cagatacctg tgcacaggca cagacccacc aactcgtggg gacacttcaa caccgcacaa     240
agccattttg ccactagacc catgcccccca aattagcaga actgctcgtg ccgaattcct    300
gcagcccggg ggatccacta gttctagagc ggccgccacc gcggtggagc tccagctttt     360
gttcccttta gtgagggtta atttcgagct tggcgtaatc atggtcatag ctgtttcctg     420
tgtgaaattg ttatccgctc acaattccac acaacatacg agccggaagc ataaagtgta     480
aagcctgggg tgcctaatga gtgagctaac tcacattaat tgcg                      524


<210> 82
<211> 838
<212> DNA
<213> Homo sapiens

<400> 82
gaattcggca cgaggagcca ctgcggctgg ccaagatgct ttatattctt ttaaaaccat      60
tgttgtgtct atctgttaac tgcacaaata tttaccaaat gcttaccaag agccaaggac     120
tagacttggc actgggtaga aactagtaag gcatggtcct tcttctacat agaatcttag     180
cattttagag atgagttccc agacatggtc cagaaggtca cagttcacac cattaggcaa     240
ggcagtattt gaaataaaag tcatgtctaa tactaaatcc agtatgttct ctccttcagg     300
attttactct cattgctgcc ccttggtttg ctatgctctt ccccagacag ctgcacagct     360
catttaattt agatctcatt taatttagat ctctcaatta atttagatct ctgttaaaaa     420
aaaaaaaaag ccctaggcag caaggtctaa catatcatcc tcaaattaaa gagaaagccc     480
tttggtgtta tttttcttta tagcacttac caactcccag tagaatgtaa actccagtag     540
ggcacatatc tttgcctctt ttatttactg ctctattccc agcaccagaa cagtccttgc     600
cacaaagtag gtgctcaata aacatttggt gaatgaatta acctagtgtt cttttttacct     660
acacatgcac acacagagcc atgacactcc tgccgaggaa gctcgcggct ctaagaggga     720
cattaaagaa aagccaattc agtgcctgcc aaagagtaga acatgttttg acagcaggat     780
cagcttgggt ggtggaccaa caatgggttg cagaccaaga aaaaaaaaaa aaactcga      838


<210> 83
<211> 559
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (35)
<223> n equals a,t,g, or c
```

<220>
<221> misc_feature
<222> (42)
<223> n equals a,t,g, or c

<400> 83
ccntgattnc gccaagctcg aaattacccc tcacnaaggg ancaaaagct ggagctccac   60
gcggtggcgg ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgasca   120
cacttgtacg ctgtaacctc atctacttct gatgttttta aaaaatgact tttaacaagg   180
agagggaaaa gaaacccact aaattttgct ttgtttcctt gaagaatgtg gcaacactgt   240
tttgtgattt tatttgtgca ggtcatgcac acagttttga taaagggcag taacaagtat   300
tggggcctat tttttttttt tccacaaggc attctctaaa gctatgtgaa attttctctg   .   360
cacctctgta cagagaatac acctgcccct gtatatcctt ttttcccctc ccctccctcc   420
cagtggtact tctactaaat tgttgtcttg tttttttattt tttaaataaa ctgacaaatg   480
acaaaaaaaa aaaaaaaaaa aactcgaggg ggggcccggt acccaattcg ccctatagtg   540
agtcgtatta caattcact   559

<210> 84
<211> 1263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1091)
<223> n equals a,t,g, or c

<400> 84
ggccgccctt tttttttttt tttttttttaa aaacaaaaca ggttttaatg gttaaaacag   60
atgaattaat aggtttataa taaccattaa ctaagggaag ccctagaaca agaaataagg   120
atttttaatt gcatgcaaaa cctagttacc ataaaaacca atgcaatacc aaaatatctc   180
agcttcctag catagactcc aggtcttttc atttccaata cttggcagtc ataatatgta   240
cactttcata tgcacctggt tgtggaggga taagctcatt cacataggac tacaaatatc   300
tctcacaggt aggagggcac aaaagaacaa tatcttcctc cactttttg ggtccatctt   360
gaaaaacaaa aaaggcactc ccaaaggttc cttggtaaca cctttgttag gtttcttaat   420
tactaacata atctttacat gtaaggttaa tggtccactc atttcataga tctgggaacc   480
atcaggcatt ggaactgcct ttaactcaca tgccaaacaa ctggctttct taaacaatga   540
caaaaactgt atacttgttt taaaaacatt gggctttgt ttccykgaca acttatatat   600
gcttaatcac tggactttgg catgcagagc caaacatatc atggaactga aagaaccaca   660
atatgacatg gtgacagaag actctttgaa tcattattct gttttccact atcagctgct   720
ccagctccct tatactaatc caactttgtc cctcagagca cccatgctct gaacctaggt   780
ttaatctctc tgctgaaaga tttattaaag atacttagat aaaattaccaa gtctttctct   840
acgatcatca aagagtaagg gaagtcaaat gctcatgggc agttgtccac tattcacaga   900
atctttagaa actatttgcc tgaggccaag gagaatttgc tttatcacta aatctgaccc   960
atgttgagcc atactaaaac tgcacttggg tactagtctc aaatcaaatt gagcttatgt   1020
attgctctac atttattgca tcccatgctg tgtgcaattt ctgatgctga ataagagaaa   1080
tacggcaatt naaaggcttc accacaagcg tcacattcca tgggtttcct tgggttttca   1140
cctctgcatg gatcttctga tggttgacaa gatgcgctgt tgactgaaac ttttgtcgca   1200
cttctcacac ttataaggtt tctctcctgt gtgtattctc tgatgctgaa taagacccga   1260
gtt   1263

<210> 85
<211> 515
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (20)
<223> n equals a,t,g, or c

<400> 85

```
tanntgnatc cccccgggcn tgccaggaat tcggcacgag ttacaactgg tggaccacac      60
accaggcact aatcacctgg tgaggatttg gcatatccac caaaaaatgc atccgattta     120
accaacatct ccaccagcgc tacggactcc tcccaattct gacatctctt gcagacaata     180
ctatgctctc tacacactgt ttagaaatgg aaaggtgatc tgcactgtat cttgggtttg     240
ttggctatgc ttcctttgat gacatatatt atacagtata tatatacata tatttwwwww     300
gttagagttc tagccatttt atttctccgc agggtccttt ctcagacatt actgcatgct     360
gtatatggcg ttagctgtgt gttgatcttc taaaagatga tagagtttac tggtaattgt     420
gtaatcagct cctgcctttt tattttcttg ggttatttac atgtcagaga catttataaa     480
aagtgaaagg ataaaaaaaa aaaaaaaaaa ctcga                                515
```

<210> 86
<211> 2476
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (853)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2227)
<223> n equals a,t,g, or c

<400> 86

```
actcaagacc ctgtgcacct ctcagcaggc ctttgctgga cagatgaaga gtgacttgtt      60
tctggatgat tctaagaggt tatcaatact ctggctgacc atcgtcatcg tgggactgac     120
tttggtggaa gtccttggtt acttatcatt actgtgtttc tgagaagtta taaatttgcc     180
atctccctct gcacaagtta cctttgtgtg tctttcctga agactatctt cccgtctcaa     240
aatggacatg atggatccac ggatgtacag cagagagcca ggaggtccaa cygccgtaga     300
caggaaggaa ttaaaattgt cctggaagac atctttactt tatggagaca ggtggaaacc     360
aaagttcgag ctaaaatccg taagatgaag gtgacaacaa aagtcaaccg tcatgacaaa     420
atcaatggaa agaggaagac cgccaaagaa catctgagga aactaagcat gaaagaacgt     480
gagcacggag aaaaggagag gcaggtgtca gaggcagagg aaaatgggaa attggatatg     540
aaagaaatac acacctacat ggaaatgttt caacgtgcgc aagtttgcgg cggcgggcag     600
aggactacta cagatgcaaa atcacccctt ctgcaagaaa gcctctttgc aaccgggtaa     660
gtttgcttgt tttccttgct tttggacata gtctgccagg tcaggacatg gatacatttt     720
tctccctacg gctctgtgct caagccctgc agagggagat ggcagagagg aaggctgcct     780
acaagcatca cagtcccatc cctgttggta accgtgttgc gcaaaaacac cttcatcccc     840
```

40

```
acccagtggg gcnccccatc taatattcta agtgtcagag gttccgtatt tgtaatarca    900
aatgggccct gactgtaaat tagtgaagag tgaatgtaac ttattaccca cagggacaat    960
tccaaatgag ggccttaaat gatgctcagc taagctggtt cttgtgtggc ctctgtacct   1020
tcaaaagctg ccgagtccta tgattrcacg cgatgggact tgtacacttg aagtgaaaca   1080
cagttttaaa acttgctttg tttagaattc ccacctcatt tttccatgga caaaagtatt   1140
ctttatgtcc tagtgcactt acaatttggt attacctggg agtgaaaaga aatattacag   1200
ccatgcctaa ctgacttctt gaggtaagat tgttctgtca gaaaaccctc tcccagttcc   1260
cctgcagctc ttcaggaatc cacatctctc cagagctctt tgttctcatg ggtggcacct   1320
ccagagtgaa gaagatcctt tgtcaagaag ggaaacagag gggaaatgag agggtcctgc   1380
aggcagagct ggaatcaact tccactctgc ctcttgcaag ctgtgtgacc ctgggcacaa   1440
tttctccttc ctctggaaac ctctgttttc ttagatttgg agcaggrtgg tcacactgac   1500
cttgcagagt tctgagaatc agagacagaa cataaaaggc ctggaaaaca ttctccaaaa   1560
agaagctgca acatgtgtgg acaatgggct tttcatgcct ctcttactgt ctcttactgt   1620
ctattgacct ggtgcaagaa acatgctctg gtgatggctg tgagggagga atgaggatag   1680
acatagacac tcctgtgtct caaacatgct tctttattac tctgttatga ctctgtcttc   1740
cctggggcag daccccagcc tgcctacatt tgcagacaga cacagtggca tgtggagaca   1800
acagtgtgtc ccartgactt ttctttaccc cccagctgtc ggcagtactc agtggaaggg   1860
tgatatgaca ctgatactgc tattttgaaa cctggaggat ggaaggtgc aaaaatctat   1920
caccagcaac agaaggtgca gacygtgttg gtggcggtaa ttttgtccat caaatgaata   1980
tgtgtgaaaa cattccctcc tttggcccta caggtcagaa tggcggcagy ggagcatcgt   2040
cattcttcag gattgccctr ctggccctac ctcacagctg aaactttaaa aaacaggatg   2100
ggccaccagc cacctcctcc aactcaacaa cattctataa ytgataactc cctgagcctc   2160
aagacacctg csgagtgtct gctctatccc cttccaccct cagcggatga taatctcaag   2220
acacctnccg agtgtctgct cactcccctt ccaccctcag ctccaccctc agcggatgat   2280
aatctcaaga cacctcccga gtgtgtctgc tcactcccct tccaccctca gctccaccct   2340
cagcggatga taatctcaag acacctccca agtgtgtctg ctcactcccc ttccaccctc   2400
agtggatgat aatctsaaga aactaasgaa gaataaataa ataatataaa aataaaaaaa   2460
aaaaaaaaaa actcga                                                   2476
```

```
<400> 87
tnactatgcc ctgcgcactg gggcctttga acctgctgag gcctcagtta atccccaaga     60
cctccaagga tccttgcagg agttgaagga gagggctctg agccgataca acctcgtgcg    120
gggccagggt ccagagaggc tggtgtctgg ctccgacgac ttcacctat tcctgtggtc    180
cccagcagag grcaaaaagc ctctcactcg gatgacagga caccaagctc tcatcaacca    240
ggtgctcttc tctcctgact cccgcatcgt ggctagtgcc tcctttgaca agtccatcaa    300
gctgtgggat ggcaggacgg gcaagtacct ggcttcccta cgcggccacg tggctgccgt    360
gtaccagatt gcgtggtcag ctgacagtcg gctcctggtc agcggcagca gtngacagca    420
cactgaaggt gtgggatgtg aaggcccaga agctggccat ggacctgccc ggccacgcgg    480
atgaggtata tgctgttgac tggagtccag atggccagag agtggcaagt ggtgggaagg    540
acaaatgcyt ccggatatgg aggagatgag acggcccgaa gttctctctg accccacct    600
cgactcggcc tctgccagct gccttccctg ccagagaaca aaggctgaga tggcagtgca    660
cacaccctcc ccaccagtgg ggacctgaga atgcgtgtgg cctgctgtcc tcgatagacc    720
ggaatggggt tttcccacag atccccgcct gtggcacacc ccagagccag aaatcgaagg    780
tcacaggaag ttgtcactga acttggcccg tgtctgctac tctgtacctt gctggtacag    840
```

```
acaggggtgg tgggcagcca ggctctatga gtgggccct agtgtcagct ctgtacaggg       900
tcagatccca ggttctatga ccaaataagt aacttaagtt ttgtgtgttg ggttctaatt       960
ccttgtccta gaatccccat gactcaatca aggactgtgc taaatgagat tgtccagccc      1020
ccgcccttgc actggactac gccaaaacca cactgaccag gcacttgcct tccctctctt      1080
cccccgtgtt ggtaagagag aggccagttg tgatagtggc caaggagaat ctagggctgt      1140
attgttgtcc actgcagtag gcaccggcca catgtgactg ctggcatgaa atagaagtgc      1200
agttcctcca tcgcactggg taaggcctcc agtattggac agcacacaga aaggttttca      1260
tcatcaagag agttctgctg gtcagccctg ctccagggga tgcctctgcc ttcgcatagc      1320
acactgcttg aggccctgcc aggcaccaag cactgccctg ggcccatggg atagagcggg      1380
gaaggtgatg gctcttccag aggattccct cagatgggga ggcagcagta tgagctctga      1440
gcagaagtgg gtattgttga tacagaggaa gttctttgcc acgagaactt tcaagcagtg      1500
aaaggaattc ccatcaggac tcagacccca ggccgagatc ttgccctgaa tgtaccctgc      1560
ctctgctttc tcctgcatcc catgctaagc agggtcatgg tctgaactac tcagattgga      1620
tttccaaacc atccttgtat aaactgctca gaactaraaa aaaaaaaaaa aaaaaactc      1680
gaggggggggc ccgtacccaa ttcgccctat agtgagtcgt at                       1722


<210> 88
<211> 1128
<212> DNA
<213> Homo sapiens

<400> 88
ttacaaatga ttactacagg aatagtggcc acttaatgtc agttactccg gtggaagaat       60
ttatctagtt ttttttttt tctttttttgg aaggatggtg tgaaaaatag caagattaga      120
gaatgagttg tatagttttt tctatcacat ttcatctaaa atgatttgaa ggacttttga      180
agatttttac caacatcctt aaatcaactc caggttggat gaacaactga tttaaaacaa      240
actaagagaa cattaactag atgtgggct tttaaaatat ataggtattg catttcctac      300
cttgttattt attccacttt gaatacttta gagggcttaa cttcaactc tttaaggtag      360
taatggatag ttttatactt gttctcacaa aattgttatg gtcagtttat atcattgctc      420
catgcattga ttataaaaat tcagtattaa ttttttctga tcttataagc tttataggag      480
ttttctttc tcttataaag tgtttcacct tatgtaaaac aaatgcctgc ttgcatattg      540
gaagatgttg aaattagttt tagacaaaag tggtccatca attcagacac tctgcttgga      600
tgccttaccc ttttcattag tgcattcttt gcttctgaaa cttggcagaa actcgttagc      660
cagtccactg cctttctgac aatgtgtgga gtcacgtatg cttggtatat gcctttacta      720
cttttaaagt tctacagttt attacttgcc caagtgttac taaatccttt tcttatgtgt      780
actggatgga gaaaaaatta tagccagcac tttgagagga aagttttcag aaacaatatt      840
aactggcact actaactgaa ggccacagga gatgctatca atgttatttg taatctgaag      900
attgaacaag gctgtgaggc tcatttcaaa ctattttgag gtgttaaaat atatatatgc      960
tgtttctcag ctgttccact caaaccgtgt taggactctc aaaggtaaaa tgtcacaggg     1020
gcttttcagt tgttacagag ctcagcagct gtggttgccc ctgttctaca ccaatttcag     1080
ttcaataaaa atgttaactt tgcaaaaaaa aaaaaaaaaa gggcggcc                  1128


<210> 89
<211> 865
<212> DNA
<213> Homo sapiens

<400> 89
gctgaatata aggaaatatg tctaatggac accagttaat acttttttaaa actactcttt       60
aaaaaaaaaa tacgttcccc ttggttaact gattttttaa tccagggtgg acattttttc      120
aacctttatt aaaaagacaa ataaactatt ttgtagaaga tcagactcct acttaactgg      180
aagagaaatg tctattaaat gtctctcctc tttctctggg tcaagaccat gtaattttat      240
gcttcagaga tgaagatact gtttgtttac aaagagttta gtttttaaga catccaaaac      300
tctatgctag agcaaaaatc aaatagcaaa ggacactagc cagaaaatac agtgtgtgtg      360
tgtgcacctg tgtgcctgct gaacaacttg acagtgtaac agataaggta actgaagatg      420
gtggatattt gaattgtatt agcttaatgt ctacatatct ttggccaaaa ctctattgtc      480
atattagaaa catgttatct ttttcatgtt tattagtaat ttatttttga ttctttgttt      540
tctttttcgt ccaactaaaa caactgtaat gtacttgata catttatatc aagttctaaa      600
```

42

```
gtatttagac aaatccaaat actttgtttt tagtttttc ctcctttcca tcctgttaac        660
cacagtgaaa cgctgcagta ttttgatttg gtcagtgcta cggaggaaga ccatgaaagc        720
tgaattggtc tgtgccaccc agagtaaacc tcttctcttc ttctggaaag atggcgtgat        780
gttttcaag gattctaata aatatcccgc agtcatctcc tgaaaaaaaa aaaaaaaaaa        840
aaaaaaaaaa aaaaaaggg cggcc                                             865



<210> 90
<211> 691
<212> DNA
<213> Homo sapiens

<400> 90
gaattcggca cgagctcgtg ccgaaaaatt attatttaag attaaaccat agcatcacat         60
tttcagtaat ggcaaataaa acttgaatat cataatgagt ttatattcat catcattcac        120
tgaaacagta taaaaacaag atctttacat taagagattc tacatttttc tgtttacttc        180
ttgaatattg tcctaatcta ttttatattt gaacatattt tgttgatttc tgctaataga        240
aagttaccaa aaacttagaa ataagacaaa tttatcattg catgtttttcc tttttcatac        300
tgaagtaatg tctaaaagat tcaccttgga ttatttgttt ctttctgaga ttgtactttg        360
tttgttttac tacttattac ttattagggc cttggctctg tgaagttgga tgttaactta        420
taaatggtat tcatagagat acgtgattta tttcaggtag aaaaaacaac cctacaagat        480
ttttttttttc cagcaaaaca ttaaacagct ttgcctcaaa cttagcaaat gtatttcatc        540
atgactttct taaactgaca acataacaac catttgaatt ttcctttgaa ccagctttac        600
cacctgtggt tttcctcatt atttcccaca ttattgagtt aaataaatat ttgacgtgtg        660
ttcactttaa aaaaaaaaaa aaaaaactcg a                                      691



<210> 91
<211> 878
<212> DNA
<213> Homo sapiens

<400> 91
gcccacgcgt ccgcccacgc gtccggagta cgctcgggag ccctgcccat ggcgaattgt         60
ggatgattgc ggtggagcct tcactatggg tgtcatcggt ggcggagtct tccaggccat        120
caagggtttc cgcaatgccc ctgttggaat tcggcaccgg ttgagaggta gtgccaatgc        180
tgtgaggatc cgagccccc agattggagg tagcttcgca gtgtgggggg gcctgttctc        240
caccatygac tgtggcctgg tgcggcttcg gggcaaggag gatccctgga actctatcac        300
cagtggagca ttgaccgggg ctgtgctggc tgcccgcagt ggcccactgg ccatggtggg        360
ctcagcaatg atggggggca tcctgttggc cctcattgag ggcgttggca tcctcctcac        420
tcgctacaca gcccagcagt tccgaaatgc gccccattc ctggaggacc ccagccagct        480
gccccctaag gatggcaccc cggccccagg ctaccccagc tatcagcagt accactgagg        540
aagccactgc caccatggga gctacttctc ggttccctcc ccgatggtct acctcgaagg        600
gagggctggc tcccagttag ccctgggacc ctccagagag ggtttctact ctgctcccta        660
gtcccagggt gggggtgggg cacccagct gccctgacag atgggtcccc tttttctctc        720
tcagggcacc ccagccccac actcacatgt acgaagttct caccccagct cctttgtgtg        780
gcaccctgat gagtatttaa agcccgtttt gaaatgccwa aaaaaaaaa aaaaaaytc        840
gggggggggc cccttaaccc atttgggcct taagggggg                             878



<210> 92
<211> 954
<212> DNA
<213> Homo sapiens

<400> 92
gaattcggca cgagaggaag agcgccagag cctgctgccc attaacaggg gcacagagga         60
ggggccaggc acttcccaca ccgagggcag ggcctggcca ctccccagct ccagtcgccc        120
ccagcgcacc ccaagaggat ggggttcac cacctgcacc gcaaggacag cctgacccag        180
gcccaggagc agggcaacct gctcaactag gccctgct ggccttcctg ccattgctgc        240
```

```
accaggactg caaggagtcc ccacaccttg gcagctcagg gtccccagtc caagcccttg        300
acctctcctc tatccagacc cgcacagctg tttcctgtgt ggatggggtc aggttgtggg        360
ccatgccagg cctgtcagct gcgttgactg actgcagcag cttgcctcat ggttttccct        420
ttttcttaga atatttattc ttcagaggta acatgcagtt gggtctcaag acctttcctc        480
caatcagccc aacccagccc agactgggct tttctgggga gctgaggagt ttatcagtat        540
tcatcttcca tcctttcata gtcacaagtt ttgttatttt gttttttttt gggggtgatg        600
gtgtaattgt taacctcatt tccgtttcct acctgtttgc ttcccccccc agtcctccgc        660
atgagctgtt gccctccagg ggcctggcac agctggcctt ggggacgagg gagaggactg        720
attcagggcc ccctcagctg tctcctccct ccctctggaa aggagggtgg ggctcagggg        780
cctcaagctg ggctctgtgt gaggcctggc ccccactccc aaccttggct ctagactgtt        840
actcttaagc tttgagaaat tttcacattg atgactattt taaaatcaaa taaaactatt        900
ttactggtaa aaaaaaaaaa aaaaaactcg aggggggccc gtacccaatc gcct             954
```

<210> 93
<211> 1095
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (556)
<223> n equals a,t,g, or c

<400> 93
```
cccgggcagg agggtcaggg ccagatggag gggccaccaa ggacatgggg aagatgctgg         60
ggggtgacga ggagaaggtt ttgcttctta cgaacgccac ggccgtnttc acttctaaac        120
taaaggaaac aaagcaatag gtttggggga cgcccagccc ccaccccccgt caccccgctc       180
ttcccaagtc ctcgcccccc gnccggcctc ctagcctctc cgcccacgcg gctgctgctt        240
ctccctgggg aggacccctg ccctcggcca ttgaacactg caccctccac aggagccgca        300
gaggcccgag gcaccggacg ctggagaccc tgcgcccctg cccagcacct cctccgtggg        360
cagctcctcg ggtggggcct gcggggttcc ctgcgcgcac tggcgcgtgt gtggcctaat        420
ccacctggtg gccctgcggg gcggcatccg agccctgtt tctcctccat tcatgtttaa         480
tttgcatcac aatttgttga atctcaggta aatgaggtct ttgcatttaa tgagttttat        540
cttgacaggc gccgcntcgc ccccgggccc tttcgtccac akcaaaaatg catcaagtct        600
ccacgtgttt cgggccaggg cgtggcttgg cattgacctt catgacctta catagcttta        660
gagaagccat aacgttagac tgcaatacta acgaccgacg cccctccggg cagagaccac        720
cgcgcccctc tgcgccccag cgacgcggcc cgcggggacg tcgctgtccg tcctgctcgc        780
cctgtgccct ctcactgact tctcccgggt cgtgtctttt aaaaactcct gttttcacac        840
cttacaaagc cagctctgag cagacagggc gtcctctcgt agaacctgcg caccccgttc        900
ccagcgcatg gcgccccggg ccgcgagctt agcttagacc gtggtgtcct ctgtccgtct        960
gtcctgcgcc tgcgcctcct cctgcatgtc ggggcccctg cgtgtgttct ctccggatgg       1020
aatcacagcc aataaacacc agtgatttca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa       1080
aaaaaaaaaa aaaaa                                                       1095
```

<210> 94
<211> 506
<212> DNA
<213> Homo sapiens

44

<400> 94

```
tccgagtttt ttgtaccact gattgttctt tcggtggtgt tgttagaatt gagctagtta          60
tttatagttc tctgttgaaa gagcccacag ggaggagagg tgagctgagc atttgaaatt         120
caggatctgg ttaakgttgt cagctcagtg gatttgagaa tattcacaga taagcaactc         180
agaaggatca tacttgtatt gtaggccctc aggtattcag gaaatagatc ttctcttgtg         240
attcaatagc cataatccaa attaaacatc tggctttcc aatgtgtatt tttgaatgta          300
tgtgtcattt cttcatagac atatcaaatc attactatgt ggtaagattt tatccagaag         360
attctcttcc taaaccttt atatatgacc cttttaaagc ataaaattat tttaggtgtg          420
agtttttatt atgcaataca aggatacagt ctttaatttt ctacctttaa gctcgtgccg         480
aattcctgca gcccggggga tccact                                             506
```

<210> 95
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (3)
<223> n equals a,t,g, or c

<400> 95

```
ntnctagcac tcaggagtcc aaaccattgc ttttgggtta gaatgcatga agaacatgca          60
cgtctatctg aactacaata actttctgct tartctactt aggctaatgt tgaacatttg         120
ttcattcaca caaccactgg tggcagaaga agagagacct cttacaccac tatagcatag         180
gagctgcaat gtcacatgag ttttaaaaga tgctytttaa agaaaaaaaa aaacamgrag         240
sargaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggg                        286
```

<210> 96
<211> 858
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (843)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (847)
<223> n equals a,t,g, or c

<400> 96

```
ggccgccctt tttttttttt tttgataaat acaaagatac atgtaaagtt ttacttacct          60
gattttaaaa acaggctacc aaaatttatc caaatatatt aaaaaatgag actgttttaa         120
aaacctttcg tttccatatt gtgactccac taagcgggta aaaagttcag gacagagatg         180
gaaaggaaag aaggaaacag gaagaagtga aactaggaag gtggtgccag tggcacatgg         240
atgaagaaag agagatcatc agccatggag aattttgtaa tgtaagtaga gagagagatt         300
gggtaggaag acaggcttca cagtttgtaa agtgtaaggg aactacccat cgtaccctgt         360
cattgactag ggctgtgagt tatgtagttc tgtctcctct tgcaaaagac ttaccacttc         420
tggcaagtga ttaaccactt ctggcaactc ttcatttctt cttatccttg aatattcatc         480
```

45

```
tacatcactc taaacagcac agccccagaa gcatggaaag gggagttatt agtatggaaa      540
ggggagttac tcttctggtg tagtggtccg attgagtcca tggcttccca gccttaccag      600
agctgataaa aatgtcaatt cctttggggc caatcttgct cctccagtgt gttttagccc      660
taatgaggtc atggttattt ctagacttct gagacttact gtggctttga attgacacaa      720
acactaattt tctgtcaaag gctagagtga tggatgttat atgcctgcgg acgcgtgggt      780
cgacccggga attccggacc ggtacctgca ggcgtaccag ctttccacta tccgtgcgtc      840
agncgcnact gtaaccct                                                    858
```

```
<210> 97
<211> 747
<212> DNA
<213> Homo sapiens
```

```
<400> 97
aaaaaggaag aaaagaaaaa aaggaaacca gccctgtcat ggaatttctc tccttccctg       60
cacagtaaag acttttgggt tttcatggat aaaatcaatg tcagtactga aactcctact      120
ctcccctccc gccccactct cccccgttgc ccgagatggc caagttcagg cctgtgcaat      180
gccgcttccc tctgagcctc cctctcaagg gccacgcagg cagctgcagc agggccagct      240
gcaggatggg gctgccggtc actgaattgt cgttcaaatg catcatcttt gtggcgtctt      300
tctcatgcga gcaaagccac gtgctctcct gtctgctgtc acatctgtgc ctggattgct      360
taaatattgt ttgtgatggg gaggttttaa tctggtgatg cagagggaag cagggctgtg      420
ggggcacgtt taattggctc ccagcagcgt ggggagtgct tctatggtgt gtggggtttt      480
ttgttgcctc cctctagaag tgttaccgtt ttcacgtcct attaatgtcc tctggttgtt      540
aaattacagc agcacattac agtgcactgg gttccctcct ggagtgaata caaacggagg      600
gcatctactt gtatttttag aagttttggg agaatttagt gatttgtggc twtgatcaat      660
cctgttgact ggtgtatgtc tgcgcaaacc tgtttcaaat aaatcttttg ttaaagtaaa      720
aaaaaaaaaa aaaaaaaaaa aactcga                                          747
```

```
<210> 98
<211> 606
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (606)
<223> n equals a,t,g, or c
```

```
<400> 98
aaaaattgga gacactgttt aacttctgtg catggactcc atcagcakct acaaagccay       60
tgggaggctg aggatcactt gagcccagaa gtttgaggct gtagtaagct tcaaaggcca      120
ctgcactcta gcttgggtga ggcaagaccc tttcaagcag taagctgcat gcttgcttgt      180
tgtggtcatt aaaaacccta gtttaggata acaggtctgc ctgcatttct tcaatcatga      240
attctgagtc ctttgcttct ttaaaacttg ctccacacag tgtagtcaag ccgactctcc      300
ataccttaa aaggtatgac aggaactgtc ttcatgtcct tacccaagca agtcatccat      360
ggataaaaac gttaccagga gcagaaccat taagctggtc caggcaagtt ggactccacc      420
atttcaactt ccagctttct gtctaatgcc tgtgtgccaa tggcttgagt taggcttgct      480
ctttaggact tcagtagcta ttctcatcct tccttgggga cacaactgtc cataaggtgc      540
tatccagagc cacactgcat ctgcacccag caccatacct cacaggagtc gactcctact      600
cttagn                                                                 606
```

```
<210> 99
<211> 756
<212> DNA
<213> Homo sapiens
```

```
<220>
```

```
<221> misc_feature
<222> (354)
<223> n equals a,t,g, or c

<400> 99
tcgacccacg cgtccgagca tattaggatt atatgtagat ttgtatgtat tttgcattat      60
gtacttcagt ctcctagttt tattattctc accttccgtt ttattcttgg cgaggaaaaa     120
atgcactaga aataatacat taaactgact cttagtctta atgtacgctt gctgtcttaa     180
ataggtgat  tgagtccaac agactcaatc atacatgtca tacatgttta tgattaagag     240
atattctttt tgtgtgctag ttgattttgc cgagaaaaaa tgaagaagaa ttcaagaaga     300
gatgagggta ggtaagctct cagagcattt ctgtctgccc atttggttct atgncttatg     360
tgggctgcta atgtgactaa ttcagagtgt tgtatttcca catctgtgga ttccaccatg     420
gaaaaggtgg gctaccattg gtccttatat ggctttatta gaaaaataga cattctatcg     480
tttgtctgcc cagtggccag agtcctggtg aacaacagag ctcatgggaa aycagcctct     540
ctcagggcac cccgctatga ggatattgaa atatgttcaa tcatttctca tctcccttgg     600
aatgtaattc cctgccctat acaaaatagg atattccaat gcgctatttg aatctaggga     660
ttgaggattt gtagttgagt tttggggtaa aggcttggct cattgccatg gaagaataaa     720
agttatttat taaaaaaaaa aaaaaaaagg gcggcc                                756


<210> 100
<211> 1061
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (460)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1048)
<223> n equals a,t,g, or c

<400> 100
acaccaatgg agacataatt gtgggcagac tatgacaacc gttgggtcag catcttctcc      60
cctgaggggc aagttcaaga ccaagattgg agctgggccg cctcatgggc cccaagggag     120
tggccgtaga ccggaatnga catatcattg tggtcgacaa caagtcttgc tgcgtcttta     180
ccttccagcc caatggcaaa ctggttggcc gttttggggg ccgtggggcc actgaccgcc     240
actttgcagg gccccatttt gtggctgtga acaacaagaa tgaaattgta gtaacggact     300
tccataacca ttcagtgaag gtgtacagtg ccgatggaga gttcctcttc aagtttggct     360
cccatggcga gggcaatggg cagttcaatg cccccacagg agtagctgtg gactccaatg     420
gaaacatcat tgtggctgac tggggcaaca gccgcatccn aggtattcga canctctggc     480
tccttcctgt cctatatcaa cacatctgca gaaccactgt atggtccaca gggcctggca     540
ctgacctcgg atggccatgt ggtggtggct gatgctggca accactgctt taaagcctat     600
cgctacctcc agtagctgta cagaggccct gcctggcttg tggagggaca gacattgggg     660
tgattggaca agagggtctg ctgggaggt  gggccagacc tggcagcact gaatgtgggc     720
tgtgggcatg ggtgcacccg gtgccctccc tctcctaccc ccaccccac  ggttgcactt     780
tatttattcg gttcttgctt tggtgactgg gtgagcctgg actgtggtcc caaggatgtg     840
```

```
tgcagagctt caccctaccc ttcttacaca cctccccacc cctgtcagtc tgctccccat      900
cccccagcct ggggccagaa cagcctaccc caggacagga gtccctctag ttgtctccct      960
accaccctat acacactgac agagacagca ataccccacc cccatatta aataaatgtc     1020
ttcaccaaga aaaaaaaaa aaaaaaanac tcgcggcacg a                         1061


<210> 101
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (775)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (776)
<223> n equals a,t,g, or c

<400> 101
 aatgaaggct ttgtggacaa catgacgctg agtggcccag acttggagct gcatgcctcc       60
 aacgccaccc tcctaagtgc caacgccagc caggggaagt tgcttccggc ccactcaggc      120
 ctcagcctca tcatcagtga cgcaggccct gacaacagtt cctgggcccc tgtggcccma      180
 gggacagttg tggttagccg tatcattgtg tgggacatca tggccttcaa tggcatcatc      240
 catgctctgg ccagccccct cctggcaccc ccacagcccc aggcagtgct ggcgcctgaa      300
 gccccacctg tggcggcagg cgtggggggct gtgcttgccg ctggagcact gcttggcttg      360
 gtggccggag ctctctacct ccgtgcccga ggcaagccca tgggctttgg cttctctgcc      420
 ttccaggcgg aagatgatgc tgatgacgac ttctcaccgt ggcaagaagg gaccaacccc      480
 accctggtct ctgtccccaa ccctgtcttt ggcagcgaca ccttttgtga acccttcgat      540
 gactcactgc tggaggagga cttccctgac acccagagga tcctcacagt caagtgacga      600
 ggctggggct gaaagcagaa gcatgcacag ggaggagacc actttattg cttgtctggg      660
 tggatggggc aggaggggct gagggcctgt cccagacaat aaaggtgccc tcagcggatg      720
 tgggccatgt caccaaraaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaann           776


<210> 102
<211> 786
<212> DNA
<213> Homo sapiens

<400> 102
 cccacccggg gagggtcgtt gtgcgcctgc ccagggtggg ggttgccgtc gcgcctaggc       60
 ctttccctca ggttttcctc ttccccactg cggctcccca gtcggcgctt gcgggagaac      120
 tcagcgctga gattgtctaa agccccagga aaaatggtgg aaaattcacc gtcgccattg      180
 ccagaaagag cgatttatgg ctttgttctt ttcttaagct cccaatttgg cttcatactt      240
 tacctcgtgt gggcctttat tcctgaatct tggctaaact ctttaggttt aacctattgg      300
 cctcaaaaat attgggcagt tgcattacct gtctacctcc ttattgctat agtaattggc      360
 tacgtgctct tgtttgggat taacatgatg agtacctctc cactcgactc catccataca      420
 atcacagata actatgcaaa aaatcaacag cagaagaaat accaagagga ggccattcca      480
 gccttaagag atatttctat tagtgaagta aaccaaatgt tctttcttgc agccaaagaa      540
 ctttacacca aaaactgaac tgtgtgtaac catagtaaca ccaagcacgt atttatttat      600
 aagtttttgc cattataatt ttgaccataa attaatttga ccatctctct tattaataga      660
 gaagtaaaaa atgtaagttg accttctctt agattatgtt caatgaatat tgtaaatgtt      720
 caagtattgt taatgaatag aataaataca atattgcatt cccaaaaaaa aaaaaaaaaa      780
 actcga                                                                786


<210> 103
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                                      48

<211> 687
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (657)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (660)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (664)
<223> n equals a,t,g, or c

<400> 103
aaaccagctt ttgccctgat tacgccangc tcgnaattam cctcactaaa gggancaaag   60
ctggagctcc accgcggtgg cggccgctct agaactagtg gatccccgg gctgcaggaa   120
ttcggcacga gcagaaaaca acatggaagc caagttccta ggaaatgcac cctgtgggca   180
ctacacattc aagttccccc aggcaatgcg gacagagagt aacctcggag ccaaggtgtt   240
cttcttcaaa gcactgctat taactggaga cttttcccag gctgggaata agggccatca   300
tgtgtgggtc actaaggatg agctgggtga ctatttgaaa ccaaaatacc tggcccaagt   360
taggaggttt gtttcagacc tctgatgggc cgagctgcct gtggacggtg ctcagacaag   420
tctgggatta gagcctcaag gacattgtgt gattgcctca catttgcagg taatatcaag   480
cagcaaacta aattctgaga aataaacgag tctattacaa aaaaaaaaaa aaaaaactcg   540
aggggggggcc cggtacccaa tttcgcccta tagtgagtcg tattacaatt cactggccgt   600
cgttttacaa cgtcgtgact ggggaaaccc tggcgttacc caacttaatc gccttgnagn   660
aacntcccct ttcggcagct ggggtaa   687

<210> 104
<211> 804
<212> DNA
<213> Homo sapiens

<400> 104
gaattcggca cgagatttttc ttcatgcagt attctcagat tggaaacatg cttcatgttt   60
cttataaata accctcaatt atgagggcgt acttttcact ttgaagaaaa ttgacttgca   120
ttaaagtggc taacaattct ttcctgggca ggatgtaaaa ttttcctctc ctctaatacc   180
agtactgttg agctcacatt ctcccacttt tcctcttttc aggtggttca cgtatttggg   240
attttatgaa acctcagaag cagacatgtt aactttctct atctttttat tccctgaggt   300

49

```
agtcctgggg ctcttaagag attacagttc ttaaaacctg gaaagtgaca ccagagaggt      360
agatcttagt tcccaaaatt aaagttactt tctagggcat aaaacctttt cagaattcag      420
attaaatttt atttattttt tctttttct gtaaccttat atttgagggg aaaatttat        480
tttcaacttt tgcatatatc taatttaaca tttgggaaaa ctgtaaatgg gccaaagttt      540
ctccctttat atgatttcc agatttttac cacttcttta gtgccacttg atgctaggca       600
ttgtctattg gagactcact ggtacgtaac tgcaggtttt accatggaac cacatataca      660
catgtcttgg aattgagggt tagggtttcc agaaggactt agttgtcctg tgctttgtc       720
tgccccatgc caaagaccac taagaacagt tttgtaagtg aaacttgggt ctacacgtta      780
aaaaaaaaaa aaaaaaaaac tcga                                             804


<210> 105
<211> 1065
<212> DNA
<213> Homo sapiens

<400> 105
gaattcggca cgagagggtc agggaggctg cccccaggcc tgtatattta acccctatgt       60
accaggagta atgaatagta ataattctat ttatgtaagt tatgatgacg ggtcaggtag      120
agtgagctgg ggagggaagt ggatccattt ctgctaagga aattctagtc aaatgcatct      180
ctgtatagac aaaatgttag tggagaagat cttgttaata gaatgtctat catcagaatc      240
tcagttgata gggtttctct tgtaatgaag tctctacaaa ttgggttagc tacatctctg      300
ctaaacagtt gatggggtat ctcttgatta gggggatccc taatatcccc agccccagcc      360
agaagctgtg aaacctcaag tcctatggag gggagaagga ctggaatgta ccccatctyc      420
cttgactgma gagcaggttc ctccactgcc ccacccctta gacaccatgm ccccatcagg      480
ttaatcccct gttgccatgg ttatggagac ttgcagctgc catcttagat gtgctctttg      540
gggaagccca tctaacagga ggacattggt ttgggggtgc acctcctgaa gaatgggtgg      600
ggaaggcttt ctctaggatc agattcaaat aaatcaagta tgtattgagt gcctactctg      660
tgcaaggcac tatgctagat ctggtgccta gaagccctga gaaagaactt aaagagctag      720
gaggacagag gcccccaagc tgatctggtg gtgcatccac gcacccccac cctgggactt      780
tggatgctcc catctccacc tccagtgact tttaaagccg cttcgtgcct ttcctgtaac      840
gttggatcct ccttttctgt cccctgctgt ctcaaggccc caagttaaag ggttaaagcc      900
gctggagctt ggggagagaa cattgtggaa tggaagggat catgcccttt gtggagtctt      960
ttttttttaa tttaataaat aaaagttgga tttgaaaaaa aaaaaaaaaa aaaaaaaaaa     1020
aaaaaaaaaa ctcgcagggg gggcccgtac ccgaatcgcc ctatg                     1065


<210> 106
<211> 373
<212> DNA
<213> Homo sapiens

<400> 106
ccacgcgtcc ggttctttga ttgcttcata agaaaccggt gtattgctct gtgctgaggt       60
cttagatatg ttctagcact caggagtcca aaccattgct tttgggttag aaatgcatga      120
aagaaacatg cacgtctatc tgaactacaa ataaactttc tgcttaagtc tacttaggct      180
aatgttgaaa catttgttca ttcaacacaa accacatggt ggcagaagaa gagagaccct      240
cattacacca catagtagca ataggagctg caatgtcaca atgagtttta aaagaatgc       300
ctctttaaaa gaaaaaaaaa aacaagaaag aaagaaaaaa aaaaaaaaaa aaaaaaaaaa      360
aaaaaaaaaa aaa                                                         373


<210> 107
<211> 687
<212> DNA
<213> Homo sapiens

<400> 107
ccacgcgtcc gctcctgtga ggtatggtgc tgggtgcaga tgcagtgtgg ctctggatag       60
caccttatgg acagttgtgt ccccaaggaa ggatgagaat agctactgaa gtcctaaaga      120
```

```
gcaagcctaa ctcaagccat tggcacacag gcattagaca gaaagctgga agttgaaatg    180
gtggagtcca acttgcctgg accagcttaa tggttctgct cctggtaacg tttttatcca    240
tggatgactt gcttgggtaa ggacatgaag acagttcctg tcataccttt taaaggtatg    300
gagagtcggc ttgactacac tgtgtggagc aagtttttaaa gaagcaaagg actcagaatt    360
catgattgaa gaaatgcagg cagacctgtt atcctaaact agggttttta atgaccacaa    420
caagcaagca tgcagcttac tgcttgaaag ggtcttgcct cacccaagct agagtgcagt    480
ggcctttgaa gcttactaca gcctcaaact tctgggctca agtgatcctc agcctcccag    540
tggtctttgt agactgcctg atggagtctc atggcacaag aagattaaaa cagtgtctcc    600
aattttaata aattttttgca atccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    660
aaaaaaaaaa aaaaaaaaaa aaaaaaa                                       687
```

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<210> 108
<211> 66
<212> PRT
<213> Homo sapiens

<400> 108
Met His Asn Leu Ile Ser Ser Ile Ile Ser Phe Leu Tyr Asn Phe Cys
1               5                   10                  15

Ala Leu Pro Leu Ala Ser Pro Gln Phe Thr Asn Glu Glu Ser Ser Tyr
            20                  25                  30

Thr Ala Leu Arg Ser Cys Thr Arg Gly Gly Phe Glu Ser Arg Ser Leu
        35                  40                  45

Gly Thr Gln Lys Ser Cys Thr Phe Gln Gly Lys Gly Asp Tyr His Val
    50                  55                  60

Thr Ala
 65
```

```
<210> 109
<211> 46
<212> PRT
<213> Homo sapiens

<400> 109
Met Ser Arg Thr Asn Thr Trp Val Ser Trp Gln Ala Ser Arg Ala Asp
1               5                   10                  15

Trp Pro Glu Thr Asp Pro Gln Glu Ala Leu Gln Pro Ala Leu Val Pro
            20                  25                  30

Ser His Ser Asp Leu Asn Pro Gly Ser Ser Arg Ser Ala Val
        35                  40                  45
```

```
<210> 110
<211> 457
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids
```

51

<220>
<221> MISC_FEATURE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 110
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Met Val Thr Cys Thr Cys Leu Pro Asp Tyr Glu Gly Asp Gly Trp Ser
 1                   5                  10                  15

Cys Arg Ala Arg Asn Pro Cys Thr Asp Gly His Arg Gly Gly Cys Ser
                20              25              30

Glu His Ala Asn Cys Leu Ser Thr Gly Leu Asn Thr Arg Arg Cys Glu
            35              40              45

Cys His Ala Gly Tyr Val Gly Asp Gly Leu Gln Cys Leu Glu Glu Ser
        50              55              60

Glu Pro Pro Val Asp Arg Cys Leu Gly Gln Pro Pro Pro Cys His Ser
65              70              75                      80

Asp Ala Met Xaa Thr Asp Leu His Phe Gln Glu Lys Arg Ala Gly Val
            85              90                      95

Phe His Leu Gln Ala Thr Ser Gly Pro Tyr Gly Leu Asn Phe Ser Glu
            100             105             110

Ala Glu Ala Ala Cys Glu Ala Gln Gly Ala Val Leu Ala Ser Phe Pro
            115             120             125

Gln Leu Ser Ala Ala Gln Gln Leu Gly Phe His Leu Cys Leu Met Gly
        130             135             140

Trp Leu Ala Asn Gly Ser Thr Ala His Pro Val Val Phe Pro Val Ala
145             150             155             160

Asp Cys Gly Asn Gly Arg Val Gly Xaa Val Ser Leu Gly Ala Arg Lys
            165             170             175

Asn Leu Ser Glu Arg Trp Asp Ala Tyr Cys Phe Arg Val Gln Asp Val
            180             185             190

Ala Cys Arg Cys Arg Asn Gly Phe Val Gly Asp Gly Ile Ser Thr Cys
        195             200             205

Asn Gly Lys Leu Leu Asp Val Leu Ala Ala Thr Ala Asn Phe Ser Thr
    210             215             220

Phe Tyr Gly Met Leu Leu Gly Tyr Ala Asn Ala Thr Gln Arg Gly Leu
225             230             235             240

Asp Phe Leu Asp Phe Leu Asp Asp Glu Leu Thr Tyr Lys Thr Leu Phe
            245             250             255

Val Pro Val Asn Glu Gly Phe Val Asp Asn Met Thr Leu Ser Gly Pro
            260             265             270

Asp Leu Glu Leu His Ala Ser Asn Ala Thr Leu Leu Ser Ala Asn Ala
        275             280             285
```

52

```
Ser Gln Gly Lys Leu Leu Pro Ala His Ser Gly Leu Ser Leu Ile Ile
    290                 295             300

Ser Asp Ala Gly Pro Asp Asn Ser Ser Trp Ala Pro Val Ala Pro Gly
305             310             315                 320

Thr Val Val Val Ser Arg Ile Ile Val Trp Asp Ile Met Ala Phe Asn
                325             330                 335

Gly Ile Ile His Ala Leu Ala Ser Pro Leu Leu Ala Pro Pro Gln Pro
            340             345                 350

Gln Ala Val Leu Ala Pro Glu Ala Pro Pro Val Ala Ala Gly Val Gly
        355             360                 365

Ala Val Leu Ala Ala Gly Ala Leu Leu Gly Leu Val Ala Gly Ala Leu
    370             375                 380

Tyr Leu Arg Ala Arg Gly Lys Pro Met Gly Phe Gly Phe Ser Ala Phe
385                 390             395                 400

Gln Ala Glu Asp Asp Ala Asp Asp Asp Phe Ser Pro Trp Gln Glu Gly
            405             410                 415

Thr Asn Pro Thr Leu Val Ser Val Pro Asn Pro Val Phe Gly Ser Asp
            420             425                 430

Thr Phe Cys Glu Pro Phe Asp Asp Ser Leu Leu Glu Glu Asp Phe Pro
        435             440                 445

Asp Thr Gln Arg Ile Leu Thr Val Lys
    450                 455


<210> 111
<211> 59
<212> PRT
<213> Homo sapiens

<400> 111
Met Asn Ile Leu Met Phe Ala Phe Met Ile Ile Phe Met Gly Ala Lys
  1             5                 10                  15

Phe Gln Glu Val Glu Phe Trp Val Arg Gly Tyr Asp His Leu Lys Ala
                20                  25                  30

Thr Leu Phe Asp Gln Ile Gly Arg Tyr Leu Lys Met Gly Gly Gln Glu
        35              40                  45

Pro Leu Leu Ala Lys Val Trp Val Arg Gly Thr
    50              55


<210> 112
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
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53

<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 112
Met Gly Pro Ala Leu Met Val Ala Ser Leu Cys Leu Gly Gly Pro Ala
 1   5   10   15

Pro Ala Val Gly Ala Ile Thr Pro Ser Pro Phe Ile Thr Ser Leu Arg
            20   25   30

Trp Ala Pro Ser Pro Ala Gly Cys Leu Pro Ser Gly Asn Ser Arg Thr
        35   40   45

Leu Arg Asp Thr Arg Ala Ala Trp Pro Arg Gly Ala Thr Ala Arg Pro
    50   55   60

Pro Gly Gly Gln Pro Trp Arg Glu Leu Arg Pro Thr Tyr Ser Gly Val
65   70   75   80

Trp Glu Pro Cys Leu Tyr Leu Gly Xaa Ser Pro Ser Gln Leu Pro Pro
                85   90   95

Cys Val Phe Pro Pro Ala Lys Val Gly
            100   105

<210> 113
<211> 97
<212> PRT
<213> Homo sapiens

<400> 113
Met Arg Asp Pro Leu Asn Arg Val Leu Ala Asn Leu Phe Leu Leu Ile
 1   5   10   15

Ser Ser Ile Leu Gly Ser Arg Thr Ala Gly Pro His Thr Gln Phe Val
            20   25   30

Gln Trp Phe Met Glu Glu Cys Val Asp Cys Leu Glu Gln Gly Gly Arg
        35   40   45

Gly Ser Val Leu Gln Phe Met Pro Phe Thr Thr Val Ser Glu Leu Val
    50   55   60

Lys Val Ser Ala Met Ser Ser Pro Lys Val Val Leu Ala Ile Thr Asp
65   70   75   80

Leu Ser Leu Pro Leu Gly Arg Gln Val Ala Ala Lys Ala Ile Ala Ala
                85   90   95

Leu

.

<210> 114
<211> 134
<212> PRT
<213> Homo sapiens

<400> 114

54

```
Met Val Glu Asn Ser Pro Ser Pro Leu Pro Glu Arg Ala Ile Tyr Gly
1               5                   10                  15

Phe Val Leu Phe Leu Ser Ser Gln Phe Gly Phe Ile Leu Tyr Leu Val
            20                  25                  30

Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn Ser Leu Gly Leu Thr Tyr
        35                  40                  45

Trp Pro Gln Lys Tyr Trp Ala Val Ala Leu Pro Val Tyr Leu Leu Ile
    50                  55                  60

Ala Ile Val Ile Gly Tyr Val Leu Leu Phe Gly Ile Asn Met Met Ser
65                  70                  75                  80

Thr Ser Pro Leu Asp Ser Ile His Thr Ile Thr Asp Asn Tyr Ala Lys
            85                  90                  95

Asn Gln Gln Gln Lys Lys Tyr Gln Glu Glu Ala Ile Pro Ala Leu Arg
            100                 105                 110

Asp Ile Ser Ile Ser Glu Val Asn Gln Met Phe Phe Leu Ala Ala Lys
        115                 120                 125

Glu Leu Tyr Thr Lys Asn
    130


<210> 115
<211> 210
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 115
Met Arg Cys Leu Thr Thr Pro Met Leu Leu Arg Ala Leu Ala Gln Ala
1               5                   10                  15

Ala Arg Ala Gly Pro Pro Gly Gly Arg Ser Leu His Ser Ser Ala Val
            20                  25                  30

Ala Ala Thr Tyr Lys Tyr Val Asn Met Gln Asp Pro Glu Met Asp Met
        35                  40                  45

Lys Ser Val Thr Asp Arg Ala Ala Arg Thr Leu Leu Trp Thr Glu Leu
    50                  55                  60

Phe Arg Gly Leu Gly Met Thr Leu Ser Tyr Leu Phe Arg Glu Pro Ala
65                  70                  75                  80

Thr Ile Asn Tyr Pro Phe Glu Lys Gly Pro Leu Ser Pro Arg Phe Arg
            85                  90                  95

Gly Glu His Ala Leu Arg Arg Tyr Pro Ser Gly Glu Glu Arg Cys Ile
            100                 105                 110
```

55

```
Ala Cys Lys Leu Cys Glu Ala Ile Cys Pro Ala Gln Ala Ile Xaa Ile
        115             120             125

Glu Ala Glu Pro Arg Ala Asp Gly Ser Arg Arg Thr Thr Arg Tyr Asp
        130             135             140

Ile Asp Met Thr Lys Cys Ile Tyr Cys Gly Phe Cys Gln Glu Ala Cys
145             150             155             160

Pro Val Asp Ala Ile Val Glu Gly Pro Asn Phe Glu Phe Ser Thr Glu
            165             170             175

Thr His Glu Glu Leu Leu Tyr Asn Lys Glu Lys Leu Leu Asn Asn Gly
        180             185             190

Asp Lys Trp Glu Ala Glu Ile Ala Ala Asn Ile Gln Ala Asp Tyr Leu
        195             200             205

Tyr Arg
    210


<210> 116
<211> 114
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 116
Met Leu Pro Gly Leu Arg Arg Leu Leu Gln Ala Pro Ala Ser Ala Cys
  1           5               10              15

Leu Leu Leu Met Leu Leu Ala Leu Pro Leu Ala Ala Pro Ser Cys Pro
            20              25              30

Met Leu Cys Thr Cys Tyr Ser Ser Pro Pro Thr Val Lys Leu Pro Gly
        35              40              45

Gln Gln Leu Leu Leu Cys Ala Ala Val Pro Ala Thr Gln His Ser Ala
    50              55              60

Thr Leu Pro Ala Glu Gln Pro His Pro His Ala Ala Xaa Arg His Leu
65              70              75              80

Trp Val Gln Pro Ala His Pro Val Ala Leu Leu Gln Gln Pro Leu His
            85              90              95

His Leu Pro Gly His Phe Pro Pro Leu Ala Ser Pro Gly Gly Ser Gly
            100             105             110

Pro Arg


<210> 117
<211> 37
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56

<212> PRT
<213> Homo sapiens

<400> 117
Met Lys Gln Thr Arg Leu Asn Pro Pro Val Val Phe Ile Leu Leu Gln
  1   5   10   15

Pro Leu Ser Arg Pro Arg Asp Gly Leu Ser Asn Ser Val Leu Ile Ile
            20   25   30

Leu His Ser Val Pro
          35

<210> 118
<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 118
Met Cys Gly Gly His Ala Ile Asn Val Gly Pro Phe Thr Val Ala Gly
  1   5   10   15

Arg Gly Arg Asn Leu Gln Phe Leu Arg Val Leu Leu Leu Arg Cys Pro
            20   25   30

Pro Val Leu Gly His Ser Cys Ser Xaa Pro Cys Pro Ala Trp Ser His
          35   40   45

Pro Pro Ser Ala Asn Arg Ser Leu Gly Arg Val Leu Trp Ala Leu Ile
      50   55   60

Arg Pro Trp Gln Gly Arg Ser Ser
 65   70

<210> 119
<211> 21
<212> PRT
<213> Homo sapiens

<400> 119
Met Gln Ile Ile Phe Leu Ala Val Thr Cys Ser Phe Thr Thr Ala Glu
  1   5   10   15

Ser Ala Val Ala Arg
            20

<210> 120
<211> 272
<212> PRT
<213> Homo sapiens

<220>

<220>
<221> MISC_FEATURE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (162)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 120
Met Ser Ala Leu Arg Arg Ser Gly Tyr Gly Pro Ser Asp Gly Pro Ser
 1   5   10   15

Tyr Gly Arg Tyr Tyr Gly Pro Gly Gly Gly Asp Val Pro Val His Pro
            20   25   30

Pro Pro Pro Leu Tyr Pro Leu Arg Pro Glu Pro Pro Gln Pro Pro Ile
        35   40   45

Ser Trp Arg Val Arg Gly Gly Gly Pro Ala Glu Thr Thr Trp Leu Gly
    50   55   60

Glu Gly Gly Gly Gly Asp Gly Tyr Tyr Pro Ser Gly Gly Ala Trp Pro
65   70   75   80

Glu Pro Gly Arg Ala Gly Gly Ser His Gln Ser Leu Asn Ser Tyr Thr
            85   90   95

Asn Gly Ala Tyr Gly Pro Thr Tyr Pro Pro Gly Pro Gly Ala Asn Thr
            100   105   110

Ala Phe Ile Leu Arg Gly Leu Xaa Cys Thr Trp Leu Tyr Ser Asp Gln
        115   120   125

Leu Leu His Arg Ile Pro Ser Thr Tyr Arg Ser Ser Gly Asn Ser Pro
    130   135   140

Thr Pro Val Ser Arg Trp Ile Tyr Pro Gln Gln Asp Cys Gln Thr Glu
145   150   155   160

Ala Xaa Pro Leu Arg Gly Lys Val Pro Gly Tyr Pro Pro Ser Xaa Xaa
                165   170   175

Pro Gly Met Xaa Leu Pro His Tyr Pro Tyr Gly Asp Gly Asn Arg Ser
            180   185   190

58

```
Val Pro Gln Ser Gly Pro Thr Val Arg Pro Gln Glu Asp Ala Trp Ala
        195             200             205

Ser Pro Gly Ala Tyr Gly Met Gly Gly Arg Tyr Pro Trp Pro Ser Ser
        210             215             220

Ala Pro Ser Ala Pro Pro Gly Asn Leu Tyr Met Thr Glu Val Leu His
225             230             235             240

His Gly Leu Ala Val Ala Leu Pro Ser His Pro Leu His Pro Gln Ser
            245             250             255

Ser Ser Pro Arg Ile Leu His Thr Pro Ile Ala Asn Gln Ile Lys Ala
        260             265             270


<210> 121
<211> 30
<212> PRT
<213> Homo sapiens

<400> 121
Met Val Leu Pro Arg Ile Leu Val Leu Met Leu Phe Leu Ala Leu Lys
 1           5               10              15

Asn Pro Val Gly Glu Met Arg Asn Leu Thr His Cys Arg Cys
            20              25              30


<210> 122
<211> 24
<212> PRT
<213> Homo sapiens

<400> 122
Met Gln Gly Ser Pro Leu Val Thr Ala Ile Tyr Lys Ile Phe Leu Leu
 1           5               10                  15

Ser Leu Leu Val Arg Gly Ile Cys
            20


<210> 123
<211> 73
<212> PRT
<213> Homo sapiens

<400> 123
Met Arg Leu Gln Pro Asp Ile Cys Asn Leu Pro Thr Asn Pro Leu Ser
 1           5               10              15

Leu Lys Leu Gly Leu Met Leu Leu Ser Leu Thr Leu Cys Leu Glu Lys
            20              25              30

Thr Val Gln Gly Leu Lys Leu Gly Leu Cys Leu Phe Lys Leu Ser Phe
        35              40              45

59
```

Ser Glu His Met Val Cys Pro Thr His Pro Gln Ser Ile Arg Trp Phe
    50   55   60

Tyr Phe Met Phe Arg Leu Gln Cys Cys
65   70

<210> 124
<211> 312
<212> PRT
<213> Homo sapiens

<400> 124
Met Ala Ala Gly Val Asp Cys Gly Asp Gly Val Gly Ala Arg Gln His
 1   5   10   15

Val Phe Leu Val Ser Glu Tyr Leu Lys Asp Ala Ser Lys Lys Met Lys
              20   25   30

Asn Gly Leu Met Phe Val Lys Leu Val Asn Pro Cys Ser Gly Glu Gly
          35   40   45

Ala Ile Tyr Leu Phe Asn Met Cys Leu Gln Gln Leu Phe Glu Val Lys
      50   55   60

Val Phe Lys Glu Lys His His Ser Trp Phe Ile Asn Gln Ser Val Gln
65   70   75   80

Ser Gly Gly Leu Leu His Phe Ala Thr Pro Val Asp Pro Leu Phe Leu
              85   90   95

Leu Leu His Tyr Leu Ile Lys Ala Asp Lys Glu Gly Lys Phe Gln Pro
          100   105   110

Leu Asp Gln Val Val Val Asp Asn Val Phe Pro Asn Cys Ile Leu Leu
          115   120   125

Leu Lys Leu Pro Gly Leu Glu Lys Leu Leu His His Val Thr Glu Glu
      130   135   140

Lys Gly Asn Pro Glu Ile Asp Asn Lys Lys Tyr Tyr Lys Tyr Ser Lys
145   150   155   160

Glu Lys Thr Leu Lys Trp Leu Glu Lys Lys Val Asn Gln Thr Val Ala
              165   170   175

Ala Leu Lys Thr Asn Asn Val Asn Val Ser Ser Arg Val Gln Ser Thr
              180   185   190

Ala Phe Phe Ser Gly Asp Gln Ala Ser Thr Asp Lys Glu Glu Asp Tyr
          195   200   205

Ile Arg Tyr Ala His Gly Leu Ile Ser Asp Tyr Ile Pro Lys Glu Leu
      210   215   220

Ser Asp Asp Leu Ser Lys Tyr Leu Lys Leu Pro Glu Pro Ser Ala Ser
225   230   235   240

Leu Pro Asn Pro Pro Ser Lys Lys Ile Lys Leu Ser Asp Glu Pro Val

60

```
Glu Ala Lys Glu Asp Tyr Thr Lys Phe Asn Thr Lys Asp Leu Lys Thr
            260                 265                 270

Glu Lys Lys Asn Ser Lys Met Thr Ala Ala Gln Lys Ala Leu Ala Lys
        275                 280                 285

Val Asp Lys Ser Gly Met Lys Ser Ile Asp Thr Phe Phe Gly Val Lys
    290                 295                 300

Asn Lys Lys Lys Ile Gly Lys Val
305                 310
```

```
<210> 125
<211> 103
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 125
Met Cys Ala Asp Asp Leu Leu Ser Val Leu Leu Tyr Leu Leu Val Lys
  1               5                 10                  15

Thr Glu Ile Pro Asn Trp Met Ala Asn Leu Ser Tyr Ile Lys Asn Phe
            20                  25                  30

Arg Phe Ser Ser Leu Ala Lys Asp Glu Leu Gly Ile Leu Pro Asp Leu
        35                  40                  45

Ile Arg Xaa Cys Pro Leu Asn Ile Arg Gln Gly Ser Leu Ser Ala Lys
        50                  55                  60

Pro Pro Glu Ser Glu Gly Phe Gly Asp Arg Leu Phe Leu Lys Gln Arg
 65                  70                  75                  80

Met Ser Leu Leu Ser Gln Met Thr Ser Ser Pro Thr Asp Cys Leu Phe
                85                  90                  95

Lys Ala Asp Ala Leu Leu Glu
            100
```

```
<210> 126
<211> 210
<212> PRT
<213> Homo sapiens

<400> 126
Met Ala Ser Leu Leu Gln Gln Ile Glu Ile Glu Arg Ser Leu Tyr Ser
  1               5                 10                  15

Asp His Glu Leu Arg Ala Leu Asp Glu Asn Gln Arg Leu Ala Lys Lys
            20                  25                  30
```

Lys Ala Asp Leu His Asp Glu Glu Asp Glu Gln Asp Ile Leu Leu Ala
        35   40   45

Gln Asp Leu Glu Asp Met Trp Glu Gln Lys Phe Leu Gln Phe Lys Leu
    50   55   60

Gly Ala Arg Ile Thr Glu Ala Asp Glu Lys Asn Asp Arg Thr Ser Leu
65   70   75   80

Asn Arg Lys Leu Asp Arg Asn Leu Val Leu Leu Val Arg Glu Lys Phe
            85   90   95

Gly Asp Gln Asp Val Trp Ile Leu Pro Gln Ala Glu Trp Gln Pro Gly
            100   105   110

Glu Thr Leu Arg Gly Thr Ala Glu Arg Thr Leu Ala Thr Leu Ser Glu
    115   120   125

Asn Asn Met Glu Ala Lys Phe Leu Gly Asn Ala Pro Cys Gly His Tyr
    130   135   140

Thr Phe Lys Phe Pro Gln Ala Met Arg Thr Glu Ser Asn Leu Gly Ala
145   150   155   160

Lys Val Phe Phe Phe Lys Ala Leu Leu Leu Thr Gly Asp Phe Ser Gln
            165   170   175

Ala Gly Asn Lys Gly His His Val Trp Val Thr Lys Asp Glu Leu Gly
            180   185   190

Asp Tyr Leu Lys Pro Lys Tyr Leu Ala Gln Val Arg Arg Phe Val Ser
    195   200   205

Asp Leu
    210

<210> 127
<211> 45
<212> PRT
<213> Homo sapiens

<400> 127
Met Gly Gly Thr Glu Ser Tyr Ile Ser Ser Ser Pro Leu Leu Arg Thr
 1   5   10   15

Leu Leu Leu Ser Tyr Leu Val Phe Leu Tyr Tyr Leu Tyr Leu Leu Phe
            20   25   30

Tyr Val Ala Arg Ser Pro Phe Gly Lys Ala Glu Tyr Lys
        35   40   45

<210> 128
<211> 87
<212> PRT
<213> Homo sapiens

<400> 128
Met Ala Ala Gly Trp Val Arg Ser Trp Val Val Tyr Phe Leu Val Thr
62

```
                1               5                       10                      15

        Leu Leu Gly Ser Ser Pro Ser Pro Val Ser Leu Thr Glu Gly Lys Lys
                        20              25                      30

        Ile Pro Lys Gly Thr Ala Thr Val Leu Gly Gly Ala Leu Asp Cys Val
                        35              40                      45

        His Leu Asn Phe Gly Pro Ser Phe Asp Val Trp Phe Val Ser His Lys
                50                      55                      60

        Glu Lys Tyr Leu Lys Val Asn Met Met Leu Leu Ala Tyr Tyr Pro Asp
        65                      70                      75                      80

        Tyr Cys Met Lys Leu Cys Leu
                        85


<210> 129
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 129
        Met Asn Gln Arg Tyr Arg His Lys Ile Lys Asn Tyr Lys Thr Ile His
        1                       5                       10                      15

        Tyr Ala Tyr Asp Ser Cys Asn Asn Lys Lys Val Gln Gly Thr Ile Ile
                        20              25                      30

        Ser Tyr Asn Arg Gly Ile Thr Ser His Arg Glu Gln Gln Tyr His Ile
                        35              40                      45

        Ala Gly Ile Tyr Thr Arg Ile Leu Gly Asn Leu Val Trp Ile Tyr Thr
                50                      55                      60

        Arg Ile Pro Gly Asp Pro Val Trp Leu Val Arg Gly Phe Pro Glu Lys
        65                      70                      75                      80

        Xaa Ile Ser Glu Ser
                        85


<210> 130
<211> 69
<212> PRT
<213> Homo sapiens

<400> 130
        Met Leu Gly Phe Ala Phe Arg Asp Lys Arg Trp Trp Ile Tyr Phe Ala
        1                       5                       10                      15

        Cys Ser Lys Asp Ser Gln Gly Val Arg Ala Ala Tyr Cys Gln Ile Leu
                        20              25                      30
```

63

Leu Leu Phe Tyr Val Ser Val Tyr Ser Leu Ser Phe Ser Tyr Leu Leu
        35   40   45

Asp His Phe Cys Ser Leu Pro Lys Pro Leu Leu Phe Gly Thr Val Ser
    50   55   60

Gln Ile Pro His Phe
 65

<210> 131
<211> 51
<212> PRT
<213> Homo sapiens

<400> 131
Met Cys Ser Tyr Cys Met Pro Tyr Leu Ile Ile Phe Leu Ser Val Ile
 1   5   10   15

His Asn His Lys Thr Ile Pro Leu Leu Lys Val Leu Val Asp Lys Leu
            20   25   30

Asn Cys Ile Ile Thr Asp Leu Cys Ile Ser Arg Asp Asp Val Phe Pro
        35   40   45

Thr Thr Cys
        50

<210> 132
<211> 97
<212> PRT
<213> Homo sapiens

<400> 132
Met Arg Pro Leu Leu Cys Ala Leu Thr Gly Leu Ala Leu Leu Arg Ala
 1   5   10   15

Ala Gly Ser Leu Ala Ala Ala Glu Pro Phe Ser Pro Pro Arg Gly Asp
            20   25   30

Ser Ala Gln Ser Thr Ala Cys Asp Arg His Met Ala Val Gln Arg Arg
        35   40   45

Leu Asp Val Met Glu Glu Met Val Glu Lys Thr Val Asp His Leu Gly
    50   55   60

Thr Glu Val Lys Gly Leu Leu Gly Leu Leu Glu Glu Leu Ala Trp Asn
 65   70   75   80

Leu Pro Pro Gly Pro Phe Ser Pro Ala Pro Asp Leu Leu Gly Asp Gly
                85   90   95

Phe

<210> 133
<211> 29
<212> PRT

64

<213> Homo sapiens

<400> 133
Met Ser Ile Thr Leu Ile Gln Leu Met Phe Tyr Phe Asn Thr Pro Glu
  1   5   10   15

Leu Pro His Lys Thr Ser Phe His Val Lys Gly Ser Arg
             20   25

<210> 134
<211> 45
<212> PRT
<213> Homo sapiens

<400> 134
Met Gly Ser Val Trp Asn Cys Leu Leu Ala Leu Leu Glu Lys His Leu
  1   5   10   15

Ile Thr Leu Tyr Lys Leu Ile Ile Thr Val Leu Leu Asp Leu Leu Ser
             20   25   30

Ala Arg His Lys Cys Phe Thr Ser Val Asn Ser Phe Asn
             35   40   45

<210> 135
<211> 64
<212> PRT
<213> Homo sapiens

<400> 135
Met Thr Lys Glu Asp Lys Ala Ser Ser Glu Ser Leu Arg Leu Ile Leu
  1   5   10   15

Val Val Phe Leu Gly Gly Cys Thr Phe Ser Glu Ile Ser Ala Leu Arg
             20   25   30

Phe Leu Gly Arg Glu Lys Gly Tyr Arg Phe Ile Phe Leu Thr Thr Ala
             35   40   45

Val Thr Asn Ser Ala Arg Leu Met Glu Ala Met Ser Glu Val Lys Ala
             50   55   60

<210> 136
<211> 227
<212> PRT
<213> Homo sapiens

<400> 136
Met Asp Phe Glu Asn Leu Phe Ser Lys Pro Pro Asn Pro Ala Leu Gly
  1   5   10   15

Lys Thr Ala Thr Asp Ser Asp Glu Arg Ile Asp Asp Glu Ile Asp Thr
             20   25   30

65

```
Glu Val Glu Glu Thr Gln Glu Glu Lys Ile Lys Leu Glu Cys Glu Gln
        35                  40                  45

Ile Pro Lys Lys Phe Arg His Ser Ala Ile Ser Pro Lys Ser Ser Leu
        50                  55                  60

His Arg Lys Ser Arg Ser Lys Asp Tyr Asp Val Tyr Ser Asp Asn Asp
65                  70                  75                  80

Ile Cys Ser Gln Glu Ser Glu Asp Asn Phe Ala Lys Glu Leu Gln Gln
                85                  90                  95

Tyr Ile Gln Ala Arg Glu Met Ala Asn Ala Ala Gln Pro Glu Glu Ser
            100                 105                 110

Thr Lys Lys Glu Gly Val Lys Asp Thr Pro Gln Ala Ala Lys Gln Lys
        115                 120                 125

Asn Lys Asn Leu Lys Ala Gly His Lys Asn Gly Lys Gln Lys Lys Met
    130                 135                 140

Lys Arg Lys Trp Pro Gly Pro Gly Asn Lys Gly Ser Asn Ala Leu Leu
145                 150                 155                 160

Arg Asn Ser Gly Ser Gln Glu Glu Asp Gly Lys Pro Lys Glu Lys Gln
                165                 170                 175

Gln His Leu Ser Gln Ala Phe Ile Asn Gln His Thr Val Glu Arg Lys
            180                 185                 190

Gly Lys Gln Ile Cys Lys Tyr Phe Leu Glu Arg Lys Cys Ile Lys Gly
        195                 200                 205

Asp Gln Cys Lys Phe Asp His Asp Ala Glu Ile Glu Lys Lys Lys Lys
    210                 215                 220

Lys Thr Arg
225


<210> 137
<211> 25
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 137
Met Lys Leu Ile Tyr Tyr Cys His Leu Val Asp Ile Leu Leu Leu Gln
 1               5                   10                  15

Ala Ile Ile Lys Xaa Asn Ala Gly Met
            20                  25


<210> 138
<211> 132
```

<212> PRT
<213> Homo sapiens

<400> 138
```
Met Ile Glu Cys Pro Asp Trp Ala Arg Thr Ala Ser Leu Ala Lys Gln
 1               5                  10                  15

Arg Arg Lys Val Phe Lys Gln Met Leu Ser Ser Phe Leu His Phe His
            20                  25                  30

Phe Asn Ser Met Met Pro Leu Cys Pro Ser Asp Asp Ile Ser Pro Gly
        35                  40                  45

Val Trp Asp Ser Ala Gly Leu Pro Cys Leu Leu Arg Arg Leu Pro Gly
    50                  55                  60

His His Gln Ala Gly Lys Pro Gln Ser Pro Pro Ser Ser Thr Trp Asp
65                  70                  75                  80

Pro Trp Ala Ser Ser Ile Ser Leu Thr Arg Lys Pro Val Leu Leu Leu
            85                  90                  95

Ile Leu Gly Pro His Pro Arg Pro Ile Gln Arg Lys Thr Pro Gly Ala
            100                 105                 110

Ala Leu Gly Ser Leu Cys Phe His Gln Ile Cys Val Lys Thr Gln Met
        115                 120                 125

Asn Gln Pro Arg                          .
    130
```

<210> 139
<211> 75
<212> PRT
<213> Homo sapiens

<400> 139
```
Met Phe Tyr Val Tyr Asp His Ser Met Tyr Val Asp Thr His Thr His
 1               5                  10                  15      .

Thr His Val Pro Ser Leu Tyr Thr Asn Gly Asn Ile Leu Lys Ile Leu
            20                  25                  30

Phe Cys Thr Phe Thr Val Gln Val Pro Tyr Ser Pro Leu Ser Thr Trp
        35                  40                  45

Gln Arg Pro Lys Pro Val Lys Gly Arg Val Ser Thr Trp Pro Pro Ser
    50                  55                  60

Ser Met Ser Ser Ala Arg Ser Pro Gln Gly Pro
65                  70                  75
```

<210> 140
<211> 54
<212> PRT
<213> Homo sapiens

<220>

67

<221> MISC_FEATURE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 140
Met Pro His Ile Phe Val Ser Gly Asn Phe Ser Leu Leu Ala Leu Phe
1   5   10   15

Leu Leu Ser Ala Asn Phe Ile Val Glu Val Gln Ser Trp Leu Leu Leu
            20   25   30

Leu Leu Phe Phe Ile Xaa Leu Gly Arg Ser Tyr Asn Phe Tyr Leu Leu
            35   40   45

Cys Asp Ser Ile Ile Phe
        50

<210> 141
<211> 67
<212> PRT
<213> Homo sapiens

<400> 141
Met Lys Leu Leu Leu Leu Thr Leu Thr Val Leu Leu Leu Leu Ser Gln
1   5   10   15

Leu Thr Pro Gly Gly Thr Gln Arg Cys Trp Asn Leu Tyr Gly Lys Cys
            20   25   30

Arg Tyr Arg Cys Ser Lys Lys Glu Arg Val Tyr Val Tyr Cys Ile Asn
            35   40   45

Asn Lys Met Cys Cys Val Lys Pro Lys Tyr Gln Pro Lys Glu Arg Trp
        50   55   60

Trp Pro Phe
 65

<210> 142
<211> 55
<212> PRT
<213> Homo sapiens

<400> 142
Met Val Lys Leu Ser Lys Glu Ala Lys Gln Arg Leu Gln Gln Leu Phe
1   5   10   15

Lys Gly Ser Gln Phe Ala Ile Arg Trp Gly Phe Ile Pro Leu Val Ile
            20   25   30

Tyr Leu Gly Phe Lys Arg Gly Ala Asp Pro Gly Met Pro Glu Pro Thr
            35   40   45

Val Leu Ser Leu Leu Trp Gly
        50   55

<210> 143

68

<211> 75
<212> PRT
<213> Homo sapiens

<400> 143
Met Ala Arg Ile Thr Gly Pro Pro Glu Arg Asp Asp Pro Tyr Pro Val
1   5   10   15

Leu Phe Arg Tyr Leu His Ser His His Phe Leu Glu Leu Val Thr Leu
            20   25   30

Leu Leu Ser Ile Pro Val Thr Ser Ala His Pro Gly Val Leu Gln Ala
        35   40   45

Thr Lys Asp Val Leu Lys Phe Leu Ala Gln Ser Gln Lys Gly Leu Leu
    50   55   60

Phe Phe Met Ser Glu Tyr Glu Ala Thr Ile Tyr
65   70   75

<210> 144
<211> 35
<212> PRT
<213> Homo sapiens

<400> 144
Met Leu Phe Gln Cys Gln Val Leu Leu Ser Ile Phe Ser Phe Leu Glu
1   5   10   15

Pro Val Leu Ser Ser Gly Ser Ser Arg Leu Val Phe Tyr Asn Leu Ser
            20   25   30

Asn Ile Met
        35

<210> 145
<211> 31
<212> PRT
<213> Homo sapiens

<400> 145
Met Ala Leu Leu Val Leu Thr Leu Tyr Cys Ile Leu Phe Leu Lys Ile
1   5   10   15

Tyr Met Pro Val Pro Ser His Cys Glu Gln Phe Lys Gly Arg Asn
            20   25   30

<210> 146
<211> 73
<212> PRT
<213> Homo sapiens

<400> 146
Met Thr Thr Leu Phe Glu Thr Asp Arg Cys Leu Leu Phe Leu Val Met
1   5   10   15

Ser Arg Phe Gly Phe Lys Ser Arg Leu Glu Ala Thr Ser Cys Lys Gln

```
                20                      25                      30

    Val Gln Glu Asn Glu Thr Arg Arg Val Gly Asp Thr Arg Met Lys Thr
            35                  40                  45

    Ser Val Arg Val Lys Thr Lys Gln Thr Met Tyr Ile Ile Cys Ile Trp
        50                  55                  60

    Glu Lys Lys Glu Arg Asn Tyr Leu Thr
    65                  70


<210> 147
<211> 61
<212> PRT
<213> Homo sapiens

<400> 147
Met Ala Ser Leu Leu Asp Asn Phe Ile Leu Asn Ile Ile Val Ile Phe
 1               5                  10                  15

Cys Ile Val Ile Asp Ser Tyr Leu Cys Gly Phe Met Tyr Phe Phe Val
            20                  25                  30

Ile Asp Ser Pro Val Pro Ala Cys Ser Pro Leu Gln Leu Ser Gln Thr
        35                  40                  45

Leu Ile Leu Gln Leu Gln Pro Thr Ala Arg Tyr Phe His
    50                  55                  60


<210> 148
<211> 22
<212> PRT
<213> Homo sapiens

<400> 148
Met Ser Leu Leu Leu Phe Leu Lys Val His Leu Phe Ser Pro Ser Thr
 1               5                  10                  15

Ile Phe Lys Arg Asn Asn
            20


<210> 149
<211> 37
<212> PRT
<213> Homo sapiens

<400> 149
Met Val Phe Ser Ala Lys Ile Gly Val Arg Tyr Phe Leu Val Leu Ser
 1               5                  10                  15

Cys Leu Pro Asn Cys Cys Leu Pro Ala Asp Trp Trp His Ala Gln Trp
            20                  25                  30

Leu Trp Gly Gln Gly
        35


                                70
```

<210> 150
<211> 25
<212> PRT
<213> Homo sapiens

<400> 150
Met Ile Leu Thr Phe Cys Val Phe Leu Leu Phe Ser Phe His Asn Ala
1   5   10   15

Ile Lys Ser Thr Pro Phe Leu Lys Phe
            20   25

<210> 151
<211> 108
<212> PRT
<213> Homo sapiens

<400> 151
Met Ser Ser Val Ser Leu Ser Ala Ser Ser Ser Ser Ser Ser Lys Val
1   5   10   15

Pro Arg Val Arg Ile Lys Ser Glu Gly Cys Ser Thr Gly Asp Lys Leu
            20   25   30

Ser Leu Ala Val Pro Ala Ser Lys Ala Thr Glu Pro Ile Ser Phe Arg
        35   40   45

Arg Arg Ser Ser Cys Ser Leu Cys Cys Trp Leu Ser Ala Leu Ala Ser
    50   55   60

Asp Phe Phe Arg Arg Ser Tyr Ser Gly Arg Tyr Ser Leu Ser Tyr Ser
65   70   75   80

Ser Ala Ala Leu Val Thr Cys Thr Lys Ser Ser Ser Asn Pro Val Pro
                85   90   95

Arg Thr Ala Glu Thr Pro Thr Thr Leu Ser Glu Leu
            100   105

<210> 152
<211> 36
<212> PRT
<213> Homo sapiens

<400> 152
Met Glu Val Leu Phe Asp Ser Leu Leu Phe Ser Ser Phe Ile Phe Pro
1   5   10   15

Ser Gln Ser Leu Leu Ser Arg Thr Ser Ala Phe Ser His Lys Pro Asn
            20   25   30

Gly Leu Ser Glu
        35

<210> 153
<211> 32
<212> PRT

71

<213> Homo sapiens

<400> 153
Met Gly Pro Lys Ser Gln Thr Glu Arg Thr Ser Ser Leu Met Pro His
1   5   10   15

Gln Val Arg Glu Arg Arg Ala His Ile Pro Gln Met Pro Met Asn Thr
            20   25   30

<210> 154
<211> 47
<212> PRT
<213> Homo sapiens

<400> 154
Met Gly Ile Met Leu Leu Ser Tyr Ser Asn Gly Thr Val Leu Phe Ile
1   5   10   15

Phe Val Pro Gln Ile Thr Ser Ser Val Leu Ser Val Phe Cys Ile Val
            20   25   30

Phe Val Gln Asp Ser Leu Gly Phe Ile Ser Val Ile Ser Ala Phe
        35   40   45

<210> 155
<211> 74
<212> PRT
<213> Homo sapiens

<400> 155
Met Asp Tyr Ser Arg Ile Ile Glu Arg Leu Leu Lys Leu Ala Val Pro
1   5   10   15

Asn His Leu Ile Trp Leu Ile Phe Phe Tyr Trp Leu Phe His Ser Cys
            20   25   30

Leu Asn Ala Val Ala Glu Leu Met Gln Phe Gly Asp Arg Glu Phe Tyr
        35   40   45

Arg Asp Trp Trp Asn Ser Glu Ser Val Thr Tyr Phe Trp Gln Asn Trp
        50   55   60

Asn Ile Pro Val His Lys Trp Cys Ile Arg
65   70

<210> 156
<211> 49
<212> PRT
<213> Homo sapiens

<400> 156
Met Gly Gln Ser Phe Ser Leu Tyr Met Ile Phe Gln Ile Phe Thr Thr
1   5   10   15

Phe Leu Val Pro Leu Asp Ala Arg His Cys Leu Leu Glu Thr His Trp
            20   25   30

Tyr Val Thr Ala Gly Phe Thr Met Glu Pro His Ile His Met Ser Trp
            35   40   45

Asn

<210> 157
<211> 29
<212> PRT
<213> Homo sapiens

<400> 157
Met Pro Gly Ile Phe Ile Leu Phe Met Thr Leu Ala Ser Thr Phe Asp
 1   5   10   15

Gln Arg Leu Leu Asn Asp Ser Gln Pro Lys Asp His Ser
            20   25

<210> 158
<211> 25
<212> PRT
<213> Homo sapiens

<400> 158
Met Thr Ser Tyr Ile Ile Asn Leu Ser Phe Phe Leu Pro Leu Ala Thr
 1   5   10   15

Arg Lys Val Ser Ala Lys Pro Cys Gly
            20   25

<210> 159
<211> 33
<212> PRT
<213> Homo sapiens

<400> 159
Met Ser Ser Gly Leu Phe Leu Val Leu Phe Cys Phe Leu Cys Val Phe
 1   5   10   15

Val Gly Phe Phe Asp Phe His Cys Trp Cys Asp Ile Leu Val Lys Ser
            20   25   30

Ser

<210> 160
<211> 66
<212> PRT
<213> Homo sapiens

<400> 160
Met Gln Asn Asp Gly Leu Lys Phe Met Glu Met Val Leu His Val Leu
 1   5   10   15

Gln Ala Ser Ile Gly Val Leu Leu Leu Met Val Asp Val Leu Glu His
            20   25   30

Phe Leu Ala Met Leu Ile Gly Asn Ala Gly Ala Pro Leu Pro Leu Leu
            35   40   45

Asp Val Leu Gly Lys Asp Val Ile Asp Val Ala Glu Arg Arg Glu Ser
        50   55   60

Lys Lys
 65

<210> 161
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 161
Met Asn Ser Thr Cys Gly Phe Val Thr Ser Ile Asn Gln Ile Phe Leu
 1   5   10   15

Ile Ile Leu Trp Xaa Leu Tyr Leu Pro Leu Leu Thr Thr Thr Leu Glu
            20   25   30

Ile Trp Glu Leu Leu Xaa Leu Leu His
            35   40

<210> 162
<211> 72
<212> PRT
<213> Homo sapiens

<400> 162
Met Asp Thr Arg Gly Val Val Leu Arg Ser Gly Glu Phe Asn Arg Gln
 1   5   10   15

Glu Gly Arg Glu Lys Thr Glu Gly Arg Ser Ser Ser Ile Trp Arg Gln
            20   25   30

Arg Glu Gly Gly Ser Lys Ala Lys Arg Gly Gly Pro Gln Val Gln Trp
            35   40   45

Thr Pro Ala Lys Tyr Ile Cys Arg Gly Trp Lys Gly Arg Cys Leu Ile
        50   55   60

Tyr Ile Gly Leu Arg Gly Leu Val
 65   70

74

<210> 163
<211> 44
<212> PRT
<213> Homo sapiens

<400> 163
Met Val Ser Asp Ile Ser Gly Gln Lys Gln Ser Leu Glu Ala Val Lys
1   5   10   15

Glu His Leu Leu Phe Ile Trp Leu Pro Val Tyr Lys Ser Thr His Glu
            20   25   30

Gly Pro Asn Ser Lys Ile Ser Asn Tyr Gln Val Leu
        35   40

<210> 164
<211> 60
<212> PRT
<213> Homo sapiens

<400> 164
Met Ala Ala Val Met Leu Val Leu Thr Val Val Leu Gly Leu Tyr Asn
1   5   10   15

Ser Tyr Asn Ser Cys Ala Glu Gln Ala Asp Gly Pro Leu Gly Arg Ser
            20   25   30

Thr Cys Ser Ala Ala Pro Gly Thr Pro Gly Gly Ala Gln Asp Ser Ser
        35   40   45

Met Ser Ser Leu Gln Ser Ser Arg Lys Pro His Thr
    50   55   60

<210> 165
<211> 109
<212> PRT
<213> Homo sapiens

<400> 165
Met Val Leu Thr Gly Val Arg Leu Met Lys Trp Arg Asp Glu Lys Thr
1   5   10   15

Phe Gly Thr Asp Cys Val Glu Ala Val Ile Leu Leu Val Thr Leu Leu
            20   25   30

Trp Glu Lys Lys Glu Ala Phe His Val Gly Phe Ser Glu Glu Leu Gln
        35   40   45

Tyr Phe Pro Glu Arg Ser Thr Glu Lys Leu Lys Val Phe Glu Trp Glu
    50   55   60

Glu Glu Lys Gln Thr Thr Ala Thr Ser Glu Asp Asn Thr Lys His Leu
65   70   75   80

Val His Ser Val Tyr Thr Arg Gly Ala Val Asn Phe Leu Val Glu Lys
            85   90   95

75

Glu Leu Ser Leu Glu Lys Tyr Leu Lys Lys Pro Leu Lys
            100   105

<210> 166
<211> 42
<212> PRT
<213> Homo sapiens

<400> 166
Met Gly Ser Trp Phe Tyr Leu Phe Leu Ala Pro Leu Phe Lys Gly Leu
 1   5   10   15

Ala Gly Ser Leu Pro Phe Gly Cys Leu Ser Leu Leu Gln Pro Thr Glu
            20   25   30

Lys Thr Ala Leu Gln Ser Gly Gly Ser Ser
        35   40

<210> 167
<211> 40
<212> PRT
<213> Homo sapiens

<400> 167
Met Phe Ile Phe Arg Asp Gly Leu Thr Met Phe Ser Arg Leu Val Ser
 1   5   10   15

Asn Ser Cys Pro Gln Val Ile Leu Pro Ser Trp Pro Pro Glu Ser Leu
            20   25   30

Gly Gly Ser Gly Arg Arg Ile Ser
        35   40

<210> 168
<211> 63
<212> PRT
<213> Homo sapiens

<400> 168
Met Gly Gln Thr Glu Ala Met Gln Glu Glu Met Arg Thr Arg Thr Cys
 1   5   10   15

Thr Thr Thr Pro Gln Pro Met Glu Thr Ile Arg Gln Asn Lys Thr Arg
            20   25   30

Arg His Met Thr Arg Lys Gln Ala Trp Thr Leu Gln Lys Cys Gln Cys
        35   40   45

His Glu Arg Gln Lys Leu Gly Met Leu Phe Trp Ile Lys Gly Asp
    50   55   60

<210> 169
<211> 103
<212> PRT
<213> Homo sapiens

76

<400> 169
Met Gly Ser Trp Cys Leu Arg Gly Gly Ala Val Glu Glu Pro Ala Leu
 1   5   10   15

Gln Ser Arg Glu Met Gly Tyr Ile Pro Val Leu Leu Pro Ser Ile Gly
            20   25   30

Leu Glu Val Ser Gln Leu Leu Ala Gly Ala Gly Asp Ile Arg Asp Pro
            35   40   45

Pro Asn Gln Glu Ile Pro His Gln Leu Phe Ser Arg Asp Val Ala Asn
        50   55   60

Pro Ile Cys Arg Asp Phe Ile Thr Arg Glu Thr Leu Ser Thr Glu Ile
65   70   75   80

Leu Met Ile Asp Ile Leu Leu Thr Arg Ser Ser Pro Leu Thr Phe Cys
            85   90   95

Leu Tyr Arg Asp Ala Phe Asp
            100

<210> 170
<211> 45
<212> PRT
<213> Homo sapiens

<400> 170
Met Phe Lys Asp Phe Ile Phe Leu Thr Phe Leu Pro Lys Leu Ser Gln
 1   5   10   15

Phe Val Lys Gly Ser Leu Ile Ser Gly Leu Ser Glu Cys Asp Asn Thr
            20   25   30

Ser Leu Lys Ala Ile Leu Gly Phe Ser Asn Tyr Ser Gln
            35   40   45

<210> 171
<211> 47
<212> PRT
<213> Homo sapiens

<400> 171
Met Ser Trp Gly Tyr Phe Leu Gly Ala Ser Val Leu Leu Gln Asn Phe
 1   5   10   15

Phe Ser Ser Tyr Leu Leu Thr Pro Ser Gly Lys Ile Ile Glu Glu Val
            20   25   30

Thr Val Val Lys Ala Ser Val Asn Ser Ile Ser Lys Asn Phe Met
            35   40   45

<210> 172
<211> 71
<212> PRT
<213> Homo sapiens

77

<400> 172
Met Arg Ala Thr Ile Val Arg Pro Tyr Cys Gln Glu Gly Gly Phe Trp
 1   5   10   15

Leu Leu Ala Leu Val Tyr Lys Gly Ala Arg Ala Ala Pro Leu Asp Tyr
            20   25   30

Ser Trp Glu Asp Ser Asp Ala Gly Arg Leu Leu Leu Pro Trp Val Thr
        35   40   45

Ser Ser Leu Leu Ala Asp Ile Trp Gly Phe Asp Pro Phe Phe Phe Asn
    50   55   60

Leu Leu Leu Leu Arg Cys Ile
65   70

<210> 173
<211> 153
<212> PRT
<213> Homo sapiens

<400> 173
Met Cys Glu Ser Asn Ser Thr Met Pro Gly Pro Ser Leu Glu Ser Pro
 1   5   10   15

Val Ser Thr Pro Ala Gly Lys Ile Gly Leu Ala Val Cys Tyr Asp Met
            20   25   30

Arg Phe Pro Glu Leu Ser Leu Ala Leu Ala Gln Ala Gly Ala Glu Ile
        35   40   45

Leu Thr Tyr Pro Ser Ala Phe Gly Ser Ile Thr Gly Pro Ala His Trp
    50   55   60

Glu Val Leu Leu Arg Ala Arg Ala Ile Glu Thr Gln Cys Tyr Val Val
65   70   75   80

Ala Ala Ala Gln Cys Gly Arg His His Glu Lys Arg Ala Ser Tyr Gly
            85   90   95

His Ser Met Val Val Asp Pro Trp Gly Thr Val Val Ala Arg Cys Ser
            100   105   110

Glu Gly Pro Gly Leu Cys Leu Ala Arg Ile Asp Leu Asn Tyr Leu Arg
        115   120   125

Gln Leu Arg Arg His Leu Pro Val Phe Gln His Arg Arg Pro Asp Leu
    130   135   140

Tyr Gly Asn Leu Gly His Pro Leu Ser
145   150

<210> 174
<211> 53
<212> PRT
<213> Homo sapiens

78

<400> 174
Met Lys Val Gln Ser Phe Tyr Lys Thr Leu Ile Pro Leu Leu Thr Ile
1   5   10   15

Phe Met Met Val Ala Leu Val Asn Phe Thr Gly Lys Lys Asn Ser Gln
            20   25   30

Asn Tyr Pro Ala Gly Asn Ile Ser Ser Leu Pro Lys Asp Lys Thr Val
        35   40   45

Lys Thr Arg Leu Gly
    50

<210> 175
<211> 45
<212> PRT
<213> Homo sapiens

<400> 175
Met Ala Trp Val Thr Ser Tyr Gly Pro Leu Glu Asp Glu Ser Asn Pro
1   5   10   15

Ser His Trp Phe Phe Phe Ala Asn Ser Phe Ala Phe Ile Phe Leu Ile
            20   25   30

Thr Ile Asn Ser Ile Phe His Val Leu Arg Ala Pro Gly
        35   40   45

<210> 176
<211> 178
<212> PRT
<213> Homo sapiens

<400> 176
Met Ala Lys Val Ala Lys Asp Leu Asn Pro Gly Val Lys Lys Met Ser
1   5   10   15

Leu Gly Gln Leu Gln Ser Ala Arg Gly Val Ala Cys Leu Gly Cys Lys
            20   25   30

Gly Thr Cys Ser Gly Phe Glu Pro His Ser Trp Arg Lys Ile Cys Lys
        35   40   45

Ser Cys Lys Cys Ser Gln Glu Asp His Cys Leu Thr Ser Asp Leu Glu
    50   55   60

Asp Asp Arg Lys Ile Gly Arg Leu Leu Met Asp Ser Lys Tyr Ser Thr
65   70   75   80

Leu Thr Ala Arg Val Lys Gly Gly Asp Gly Ile Arg Ile Tyr Lys Arg
            85   90   95

Asn Arg Met Ile Met Thr Asn Pro Ile Ala Thr Gly Lys Asp Pro Thr
            100   105   110

Phe Asp Thr Ile Thr Tyr Glu Trp Ala Pro Pro Gly Val Thr Gln Lys
        115   120   125

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Leu Gly Leu Gln Tyr Met Glu Leu Ile Pro Lys Glu Lys Gln Pro Val
    130             135             140

Thr Gly Thr Glu Gly Ala Phe Thr Ala Ala Ala Ser Ser Cys Thr Ser
145             150             155             160

Ser Pro Ser Met Thr Arg Ile Pro Arg Ala Ala Val Asp Phe Trp Arg
            165             170             175

Met Ser


<210> 177
<211> 30
<212> PRT
<213> Homo sapiens

<400> 177
Met Glu Gly Leu Met Leu Pro Leu Leu Ser Val Ile Tyr Ser Glu Gly
    1           5           10              15

Thr Val Trp Glu Glu Ile Ile Val Ser Gly Arg Gln Tyr Tyr
            20              25              30


<210> 178
<211> 128
<212> PRT
<213> Homo sapiens

<400> 178
Met Gln Trp Gly Glu Gly Ala Gly Pro Ser Trp Val Tyr Ile Leu Ser
    1           5           10              15

Trp Asp Ser Arg Ala Ser Leu Cys Met Cys Ala Ala Ser Arg Tyr Leu
            20              25              30

Cys Thr Gly Thr Asp Pro Pro Thr Arg Gly Asp Thr Ser Thr Pro His
            35              40              45

Lys Ala Ile Leu Pro Leu Asp Pro Cys Pro Gln Ile Ser Arg Thr Ala
        50              55              60

Arg Ala Glu Phe Leu Gln Pro Gly Gly Ser Thr Ser Ser Arg Ala Ala
65              70              75              80

Ala Thr Ala Val Glu Leu Gln Leu Leu Phe Pro Leu Val Arg Val Asn
                85              90              95

Phe Glu Leu Gly Val Ile Met Val Ile Ala Val Ser Cys Val Lys Leu
            100             105             110

Leu Ser Ala His Asn Ser Thr Gln His Thr Ser Arg Lys His Lys Val
        115             120             125
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80

<210> 179
<211> 36
<212> PRT
<213> Homo sapiens

<400> 179
Met Leu Tyr Ile Leu Leu Lys Pro Leu Leu Cys Leu Ser Val Asn Cys
1   5   10   15

Thr Asn Ile Tyr Gln Met Leu Thr Lys Ser Gln Gly Leu Asp Leu Ala
                20   25   30

Leu Gly Arg Asn
            35

<210> 180
<211> 37
<212> PRT
<213> Homo sapiens

<400> 180
Met Trp Gln His Cys Phe Val Ile Leu Phe Val Gln Val Met His Thr
1   5   10   15

Val Leu Ile Lys Gly Ser Asn Lys Tyr Trp Gly Leu Phe Phe Phe Phe
                20   25   30

Pro Gln Gly Ile Leu
            35

<210> 181
<211> 77
<212> PRT
<213> Homo sapiens

<400> 181
Met Tyr Thr Phe Ile Cys Thr Trp Leu Trp Arg Asp Lys Leu Ile His
1   5   10   15

Ile Gly Leu Gln Ile Ser Leu Thr Gly Arg Arg Ala Gln Lys Asn Asn
                20   25   30

Ile Phe Leu His Phe Phe Gly Ser Ile Leu Lys Asn Lys Lys Gly Thr
            35   40   45

Pro Lys Gly Ser Leu Val Thr Pro Leu Leu Gly Phe Leu Ile Thr Asn
    50   55   60

Ile Ile Phe Thr Cys Lys Val Asn Gly Pro Leu Ile Ser
65   70   75

<210> 182
<211> 48
<212> PRT
<213> Homo sapiens

<220>

81

<221> MISC_FEATURE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 182
Met Leu Pro Leu Met Thr Tyr Ile Ile Gln Tyr Ile Tyr Thr Tyr Ile
 1   5   10   15

Xaa Xaa Val Arg Val Leu Ala Ile Leu Phe Leu Arg Arg Val Leu Ser
            20   25   30

Gln Thr Leu Leu His Ala Val Tyr Gly Val Ser Cys Val Leu Ile Phe
        35   40   45

<210> 183
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 183
Met Leu Leu Tyr Tyr Ser Val Met Thr Leu Ser Ser Leu Gly Gln Asp
 1   5   10   15

Pro Ser Leu Pro Thr Phe Ala Asp Arg His Ser Gly Met Trp Arg Gln
            20   25   30

Gln Cys Val Pro Xaa Thr Phe Leu Tyr Pro Pro Ala Val Gly Ser Thr
        35   40   45

Gln Trp Lys Gly Asp Met Thr Leu Ile Leu Leu Phe
    50   55   60

<210> 184
<211> 48
<212> PRT
<213> Homo sapiens

<400> 184
Met Gly Phe Ser His Arg Ser Pro Pro Val Ala His Pro Arg Ala Arg
 1   5   10   15

Asn Arg Arg Ser Gln Glu Val Val Thr Glu Leu Gly Pro Cys Leu Leu
            20   25   30

Leu Cys Thr Leu Leu Val Gln Thr Gly Val Val Gly Ser Gln Ala Leu

82

<210> 185
<211> 57
<212> PRT
<213> Homo sapiens

<400> 185
Met Cys Gly Val Thr Tyr Ala Trp Tyr Met Pro Leu Leu Leu Leu Lys
 1   5   10   15

Phe Tyr Ser Leu Leu Leu Ala Gln Val Leu Leu Asn Pro Phe Leu Met
            20   25   30

Cys Thr Gly Trp Arg Lys Asn Tyr Ser Gln His Phe Glu Arg Lys Val
            35   40   45

Phe Arg Asn Asn Ile Asn Trp His Tyr
        50   55

<210> 186
<211> 84
<212> PRT
<213> Homo sapiens

<400> 186
Met Tyr Leu Ile His Leu Tyr Gln Val Leu Lys Tyr Leu Asp Lys Ser
 1   5   10   15

Lys Tyr Phe Val Phe Ser Phe Phe Leu Leu Ser Ile Leu Leu Thr Thr
            20   25   30

Val Lys Arg Cys Ser Ile Leu Ile Trp Ser Val Leu Arg Arg Lys Thr
            35   40   45

Met Lys Ala Glu Leu Val Cys Ala Thr Gln Ser Lys Pro Leu Leu Phe
        50   55   60

Phe Trp Lys Asp Gly Val Met Phe Phe Lys Asp Ser Asn Lys Tyr Pro
 65   70   75   80

Ala Val Ile Ser

<210> 187
<211> 31
<212> PRT
<213> Homo sapiens

<400> 187
Met Ser Lys Arg Phe Thr Leu Asp Tyr Leu Phe Leu Ser Glu Ile Val
 1   5   10   15

Leu Cys Leu Phe Tyr Tyr Leu Leu Leu Ile Arg Ala Leu Ala Leu

83

<210> 188
<211> 61
<212> PRT
<213> Homo sapiens

<400> 188
Met Val Gly Ser Ala Met Met Gly Gly Ile Leu Leu Ala Leu Ile Glu
1   5   10   15

Gly Val Gly Ile Leu Leu Thr Arg Tyr Thr Ala Gln Gln Phe Arg Asn
            20   25   30

Ala Pro Pro Phe Leu Glu Asp Pro Ser Gln Leu Pro Pro Lys Asp Gly
        35   40   45

Thr Pro Ala Pro Gly Tyr Pro Ser Tyr Gln Gln Tyr His
    50   55   60

<210> 189
<211> 161
<212> PRT
<213> Homo sapiens

<400> 189
Met Pro Gly Leu Ser Ala Ala Leu Thr Asp Cys Ser Ser Leu Pro His
1   5   10   15

Gly Phe Pro Phe Phe Leu Glu Tyr Leu Phe Phe Arg Gly Asn Met Gln
            20   25   30

Leu Gly Leu Lys Thr Phe Pro Pro Ile Ser Pro Thr Gln Pro Arg Leu
            35   40   45

Gly Phe Ser Gly Glu Leu Arg Ser Leu Ser Val Phe Ile Phe His Pro
    50   55   60

Phe Ile Val Thr Ser Phe Val Ile Leu Phe Phe Phe Gly Gly Asp Gly
65   70   75   80

Val Ile Val Asn Leu Ile Ser Val Ser Tyr Leu Phe Ala Ser Pro Pro
            85   90   95

Ser Pro Pro His Glu Leu Leu Pro Ser Arg Gly Leu Ala Gln Leu Ala
            100   105   110

Leu Gly Thr Arg Glu Arg Thr Asp Ser Gly Pro Pro Gln Leu Ser Pro
            115   120   125

Pro Ser Leu Trp Lys Gly Gly Trp Gly Ser Gly Ala Ser Ser Trp Ala
    130   135   140

Leu Cys Glu Ala Trp Pro Pro Leu Pro Thr Leu Ala Leu Asp Cys Tyr
145   150   155   160

Ser

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<210> 190
<211> 114
<212> PRT
<213> Homo sapiens

<400> 190
Met His Gln Val Ser Thr Cys Phe Gly Pro Gly Arg Gly Leu Ala Leu
 1               5                  10                  15

Thr Phe Met Thr Leu His Ser Phe Arg Glu Ala Ile Thr Leu Asp Cys
            20                  25                  30

Asn Thr Asn Asp Arg Arg Pro Ser Gly Gln Arg Pro Pro Arg Pro Ser
            35                  40                  45

Ala Pro Gln Arg Arg Gly Pro Arg Gly Arg Arg Cys Pro Ser Cys Ser
        50                  55                  60

Pro Cys Ala Leu Ser Leu Thr Ser Pro Gly Ser Cys Leu Leu Lys Thr
65                  70                  75                  80

Pro Val Phe Thr Pro Tyr Lys Ala Ser Ser Glu Gln Thr Gly Arg Pro
                85                  90                  95

Leu Val Glu Pro Ala His Pro Val Pro Ser Ala Trp Arg Pro Gly Pro
            100                 105                 110

Arg Ala


<210> 191
<211> 40
<212> PRT
<213> Homo sapiens

<400> 191
Met Cys Ile Phe Glu Cys Met Cys His Phe Phe Ile Asp Ile Ser Asn
 1               5                  10                  15

His Tyr Tyr Val Val Arg Phe Tyr Pro Glu Asp Ser Leu Pro Lys Thr
            20                  25                  30

Phe Ile Tyr Asp Pro Phe Lys Ala
            35                  40


<210> 192
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 192
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Met Lys Asn Met His Val Tyr Leu Asn Tyr Asn Asn Phe Leu Leu Xaa
1   5   10   15

Leu Leu Arg Leu Met Leu Asn Ile Cys Ser Phe Thr Gln Pro Leu Val
            20   25   30

Ala Glu Glu Glu Arg Pro Leu Thr Pro Leu
        35   40

<210> 193
<211> 65
<212> PRT
<213> Homo sapiens

<400> 193
Met Asp Glu Glu Arg Glu Ile Ile Ser His Gly Glu Phe Cys Asn Val
1   5   10   15

Ser Arg Glu Arg Asp Trp Val Gly Arg Gln Ala Ser Gln Phe Val Lys
            20   25   30

Cys Lys Gly Thr Thr His Arg Thr Leu Ser Leu Thr Arg Ala Val Ser
        35   40   45

Tyr Val Val Leu Ser Pro Leu Ala Lys Asp Leu Pro Leu Leu Ala Ser
    50   55   60

Asp
 65

<210> 194
<211> 63
<212> PRT
<213> Homo sapiens

<400> 194
Met Val Cys Gly Val Phe Cys Cys Leu Pro Leu Glu Val Leu Pro Phe
1   5   10   15

Ser Arg Pro Ile Asn Val Leu Trp Leu Leu Asn Tyr Ser Ser Thr Leu
            20   25   30

Gln Cys Thr Gly Phe Pro Pro Gly Val Asn Thr Asn Gly Gly His Leu
        35   40   45

Leu Val Phe Leu Glu Val Leu Gly Glu Phe Ser Asp Leu Trp Leu
    50   55   60

<210> 195
<211> 58
<212> PRT
<213> Homo sapiens

<400> 195
Met Asp Lys Asn Val Thr Arg Ser Arg Thr Ile Lys Leu Val Gln Ala
1   5   10   15

Ser Trp Thr Pro Pro Phe Gln Leu Pro Ala Phe Cys Leu Met Pro Val
            20   25   30

Cys Gln Trp Leu Glu Leu Gly Leu Leu Phe Arg Thr Ser Val Ala Ile
            35   40   45

Leu Ile Leu Pro Trp Gly His Asn Cys Pro
        50   55

<210> 196
<211> 29
<212> PRT
<213> Homo sapiens

<400> 196
Met Tyr Phe Ser Leu Leu Val Leu Leu Phe Ser Pro Ser Val Leu Phe
    1   5   10   15

Leu Ala Arg Lys Lys Cys Thr Arg Asn Asn Thr Leu Asn
            20   25

                                                    .

<210> 197
<211> 51
<212> PRT
<213> Homo sapiens

<400> 197
Met Trp Trp Trp Leu Met Leu Ala Thr Thr Ala Leu Lys Pro Ile Ala
    1   5   10   15

Thr Ser Ser Ser Cys Thr Glu Ala Leu Pro Gly Leu Trp Arg Asp Arg
            20   25   30

His Trp Gly Asp Trp Thr Arg Gly Ser Gly Trp Glu Val Gly Gln Thr
            35   40   45

Trp Gln His
        50

<210> 198
<211> 125
<212> PRT
<213> Homo sapiens

<400> 198
Met Ala Phe Asn Gly Ile Ile His Ala Leu Ala Ser Pro Leu Leu Ala
    1   5   10   15

Pro Pro Gln Pro Gln Ala Val Leu Ala Pro Glu Ala Pro Pro Val Ala
            20   25   30

Ala Gly Val Gly Ala Val Leu Ala Ala Gly Ala Leu Leu Gly Leu Val
            35   40   45

Ala Gly Ala Leu Tyr Leu Arg Ala Arg Gly Lys Pro Met Gly Phe Gly
        50   55   60

87

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Phe Ser Ala Phe Gln Ala Glu Asp Asp Ala Asp Asp Asp Phe Ser Pro
65                  70                  75                  80

Trp Gln Glu Gly Thr Asn Pro Thr Leu Val Ser Val Pro Asn Pro Val
                85                  90                  95

Phe Gly Ser Asp Thr Phe Cys Glu Pro Phe Asp Asp Ser Leu Leu Glu
                100                 105                 110

Glu Asp Phe Pro Asp Thr Gln Arg Ile Leu Thr Val Lys
            115                 120                 125


<210> 199
<211> 134
<212> PRT
<213> Homo sapiens

<400> 199
Met Val Glu Asn Ser Pro Ser Pro Leu Pro Glu Arg Ala Ile Tyr Gly
1                   5                   10                  15

Phe Val Leu Phe Leu Ser Ser Gln Phe Gly Phe Ile Leu Tyr Leu Val
                20                  25                  30

Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn Ser Leu Gly Leu Thr Tyr
            35                  40                  45

Trp Pro Gln Lys Tyr Trp Ala Val Ala Leu Pro Val Tyr Leu Leu Ile
    50                  55                  60

Ala Ile Val Ile Gly Tyr Val Leu Leu Phe Gly Ile Asn Met Met Ser
65                  70                  75                  80

Thr Ser Pro Leu Asp Ser Ile His Thr Ile Thr Asp Asn Tyr Ala Lys
                85                  90                  95

Asn Gln Gln Gln Lys Lys Tyr Gln Glu Glu Ala Ile Pro Ala Leu Arg
            100                 105                 110

Asp Ile Ser Ile Ser Glu Val Asn Gln Met Phe Phe Leu Ala Ala Lys
            115                 120                 125

Glu Leu Tyr Thr Lys Asn
        130


<210> 200
<211> 80
<212> PRT
<213> Homo sapiens

<400> 200
Met Glu Ala Lys Phe Leu Gly Asn Ala Pro Cys Gly His Tyr Thr Phe
1                   5                   10                  15

Lys Phe Pro Gln Ala Met Arg Thr Glu Ser Asn Leu Gly Ala Lys Val
                20                  25                  30

Phe Phe Phe Lys Ala Leu Leu Leu Thr Gly Asp Phe Ser Gln Ala Gly
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88

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                35                           40                           45

Asn Lys Gly His His Val Trp Val Thr Lys Asp Glu Leu Gly Asp Tyr
       50                           55                    60

Leu Lys Pro Lys Tyr Leu Ala Gln Val Arg Arg Phe Val Ser Asp Leu
   65                        70                    75                    80




<210> 201
<211> 22
<212> PRT
<213> Homo sapiens

<400> 201
Met Leu Thr Phe Leu Ile Phe Leu Phe Pro Glu Val Val Leu Gly Leu
 1                   5                   10                   15

Leu Arg Asp Tyr Ser Ser
                20


<210> 202
<211> 23
<212> PRT
<213> Homo sapiens

<400> 202
Met Leu Val Glu Lys Ile Leu Leu Ile Glu Cys Leu Ser Ser Glu Ser
 1                   5                   10                   15

Gln Leu Ile Gly Phe Leu Leu
                20


<210> 203
<211> 8
<212> PRT
<213> Homo sapiens

<400> 203
Met His Val Tyr Leu Asn Tyr Lys
 1                   5


<210> 204
<211> 10
<212> PRT
<213> Homo sapiens

<400> 204
Met Val Glu Ser Asn Leu Pro Gly Pro Ala
 1                   5                   10


<210> 205
<211> 40
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<212> PRT
<213> Homo sapiens

<400> 205
Asn Ser Ala Arg Ala Lys Met Arg Leu Ser Thr Asn Leu Cys Ile Ile
 1   5   10   15

Leu Ile Asn Ile Leu Ile Gln Asn Val Leu Asn Phe Asn Arg Lys Ile
            20   25   30

Ile Phe Lys Phe Leu Pro Cys Ala
         35   40

<210> 206
<211> 48
<212> PRT
<213> Homo sapiens

<400> 206
His Glu Gly Thr Trp Arg Trp Glu Ala Pro Thr Pro Leu Gln Ser Leu
 1   5   10   15

Gly Pro Thr Thr Pro Ser Leu Pro Ser Val Ala Asp Leu Cys Gln Asp
            20   25   30

Gly His Gly Gly Cys Ser Glu His Ala Asn Cys Ser Gln Val Gly Thr
            35   40   45

<210> 207
<211> 8
<212> PRT
<213> Homo sapiens

<400> 207
Leu Ser Ala Gly Asn His Asp Thr
 1   5

<210> 208
<211> 19
<212> PRT
<213> Homo sapiens

<400> 208
Glu Phe Gly Thr Arg Ser Leu Asp Pro Ser Gly Arg His Arg Val Gly
 1   5   10   15

Ala Ala Gly

<210> 209
<211> 44
<212> PRT
<213> Homo sapiens

<400> 209
Ala Gln Gly Arg Cys Ser Arg Asp Gly Ala Ser Ala His Gly Gly Leu
 1   5   10   15

Ser Val Pro Arg Trp Thr Cys Pro Ser Ser Gly Ser His Asn Pro Leu
             20   25   30

Pro Leu His Tyr Phe Thr Gln Val Gly Thr Phe Pro
         35   40

                              .

<210> 210
<211> 44
<212> PRT
<213> Homo sapiens

<400> 210
Cys Arg Val Ser Ala Leu Arg Glu Leu Lys Asp Ser Gln Arg His Gln
 1   5   10   15

Gly Ser Leu Ala Gln Arg Ser Asn Ser Gln Ala Pro Arg Arg Thr Ala
             20   25   30

Met Glu Arg Thr Glu Thr His Leu Gln Trp Gly Leu
         35   40

<210> 211
<211> 45
<212> PRT
<213> Homo sapiens

<400> 211
Gly Thr Leu Pro Val Pro Gly Val Gln Ser Leu Pro Thr Pro Ser Leu
 1   5   10   15

Cys Leu Pro Pro Ser Lys Gly Gly Val Thr Thr Ser Val Ala Lys His
             20   25   30

Leu Leu Pro Gly Ser Leu His Pro Gly His Leu Ser Leu
         35   40   45

<210> 212
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 212
Trp Ser Val Cys Leu Ser Val Pro Pro Ser Leu Asn Leu Leu Pro Pro
 1   5   10   15

Cys Pro Leu Leu Leu Ala Pro Gly Ser Pro Xaa Pro Leu Leu Ala Ala
             20   25   30

Pro Ser His Leu Thr Gln Gly Ser Leu Arg Thr Leu Lys Trp Trp Ile
        35   40   45

His Pro Glu
      50

<210> 213
<211> 50
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 213
Ser Pro Gly Leu Xaa Gly Ile Arg His Glu Gln Pro Ser Lys Leu Met
  1   5   10   15

Arg Leu Leu Ser Ser Asn Glu Asp Asp Ala Asn Ile Leu Ser Ser Pro
              20   25   30

Thr Asp Arg Ser Met Ser Ser Ser Leu Ser Ala Ser Gln Leu His Thr
          35   40   45

Val Asn
      50

<210> 214
<211> 25
<212> PRT
<213> Homo sapiens

<400> 214
Gln Pro Ser Lys Leu Met Arg Leu Leu Ser Ser Asn Glu Asp Asp Ala
  1   5   10   15

Asn Ile Leu Ser Ser Pro Thr Asp Arg
              20   25

<210> 215
<211> 26
<212> PRT
<213> Homo sapiens

<400> 215
Gln Leu His Thr Val Asn Met Arg Asp Pro Leu Asn Arg Val Leu Ala
  1   5   10   15

Asn Leu Phe Leu Leu Ile Ser Ser Ile Leu
              20   25

<210> 216
<211> 17

<212> PRT
<213> Homo sapiens

<400> 216
Gly Ser Arg Thr Ala Gly Pro His Thr Gln Phe Val Gln Trp Phe Met
1   5   10   15

Glu

<210> 217
<211> 16
<212> PRT
<213> Homo sapiens

<400> 217
Lys Val Ser Ala Met Ser Ser Pro Lys Val Val Leu Ala Ile Thr Asp
1   5   10   15

<210> 218
<211> 41
<212> PRT
<213> Homo sapiens

<400> 218
Ile Leu Tyr Leu Val Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn Ser
1   5   10   15

Leu Gly Leu Thr Tyr Trp Pro Gln Lys Tyr Trp Ala Val Ala Leu Pro
            20   25   30

Val Tyr Leu Leu Ile Ala Ile Val Ile
            35   40

<210> 219
<211> 20
<212> PRT
<213> Homo sapiens

<400> 219
Tyr Gly Phe Val Leu Phe Leu Ser Ser Gln Phe Gly Phe Ile Leu Tyr
1   5   10   15

Leu Val Trp Ala
            20

<210> 220
<211> 12
<212> PRT
<213> Homo sapiens

<400> 220
Thr Ser Pro Leu Asp Ser Ile His Thr Ile Thr Asp

93

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        1              5                    10


<210> 221
<211> 20
<212> PRT
<213> Homo sapiens

<400> 221
Pro Leu Pro Glu Arg Ala Ile Tyr Gly Phe Val Leu Phe Leu Ser Ser
 1               5                    10                   15

Gln Phe Gly Phe
            20


<210> 222
<211> 51
<212> PRT
<213> Homo sapiens

<400> 222
Pro Thr Arg Gly Gly Ser Leu Cys Ala Cys Pro Gly Trp Gly Leu Pro
 1               5                    10                   15

Ser Arg Leu Gly Leu Ser Leu Arg Phe Ser Ser Ser Pro Leu Arg Leu
            20                   25                   30

Pro Ser Arg Arg Leu Arg Glu Asn Ser Ala Leu Arg Leu Ser Lys Ala
         35                   40                   45

Pro Gly Lys
      50


<210> 223
<211> 35
<212> PRT
<213> Homo sapiens

<400> 223
Ser Leu His Ser Ser Ala Val Ala Ala Thr Tyr Lys Tyr Val Asn Met
 1               5                    10                   15

Gln Asp Pro Glu Met Asp Met Lys Ser Val Thr Asp Arg Ala Ala Arg
            20                   25                   30

Thr Leu Leu
         35


<210> 224
<211> 60
<212> PRT
<213> Homo sapiens

<400> 224
Trp Thr Glu Leu Phe Arg Gly Leu Gly Met Thr Leu Ser Tyr Leu Phe
 1               5                    10                   15
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Arg Glu Pro Ala Thr Ile Asn Tyr Pro Phe Glu Lys Gly Pro Leu Ser
            20   25   30

Pro Arg Phe Arg Gly Glu His Ala Leu Arg Arg Tyr Pro Ser Gly Glu
            35   40   45

Glu Arg Cys Ile Ala Cys Lys Leu Cys Glu Ala Ile
        50   55   60

<210> 225
<211> 57
<212> PRT
<213> Homo sapiens

<400> 225
Cys Pro Ala Gln Ala Ile Ile Glu Ala Glu Pro Arg Ala Asp Gly Ser
  1   5   10   15

Arg Arg Thr Thr Arg Tyr Asp Ile Asp Met Thr Lys Cys Ile Tyr Cys
            20   25   30

Gly Phe Cys Gln Glu Ala Cys Pro Val Asp Ala Ile Val Glu Gly Pro
            35   40   45

Asn Phe Glu Phe Ser Thr Glu Thr His
        50   55

<210> 226
<211> 19
<212> PRT
<213> Homo sapiens

<400> 226
Gly Asp Lys Trp Glu Ala Glu Ile Ala Ala Asn Ile Gln Ala Asp Tyr
  1   5   10   15

Leu Tyr Arg

<210> 227
<211> 48
<212> PRT
<213> Homo sapiens

<400> 227
Ser Ala Ala Asp Pro Ala Thr Gln Pro Gly Asp Ser Arg Ala Leu Pro
  1   5   10   15

Glu Pro Arg Gly Val Pro Ala Val His Pro Ala Gly Ser Gly Ser Glu
            20   25   30

Trp Glu Arg Pro Pro Pro Ala Ala Pro Ser Pro Glu His Arg Asp Lys
            35   40   45

<210> 228
<211> 24
<212> PRT
<213> Homo sapiens

<400> 228
Asp Ser Arg Ala Leu Pro Glu Pro Arg Gly Val Pro Ala Val His Pro
 1   5   10   15

Ala Gly Ser Gly Ser Glu Trp Glu
            20

<210> 229
<211> 19
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 229
Arg Arg Thr Ser Gly Ser Pro Xaa Ala Ala Gly Ile Arg His Glu Gly
 1   5   10   15

Gly Phe Ile

<210> 230
<211> 48
<212> PRT
<213> Homo sapiens

<400> 230
Ala His Gly Gln Ile Glu Gly Lys Ala Leu Thr His Asp His Thr Ala
 1   5   10   15

Glu Lys Trp Gln Arg Gln Asp Leu Asn Leu Glu Pro Leu Ala Pro His
            20   25   30

Thr Ser Asn Leu Asn His Ser Pro Tyr Asn Thr Thr Tyr Val Val Lys
            35   40   45

<210> 231
<211> 149
<212> PRT
<213> Homo sapiens

<400> 231
Met Asn Arg His Asn Phe Pro Cys Ser Val His Gln Tyr Glu Ser Ser
 1   5   10   15

```
Gly Thr Val Asn Asn Asp Asp Ser Asp Leu Leu Asp Ser Gln Val Gln
        20              25              30

Tyr Ser Ala Glu Pro Gln Leu Tyr Gly Asn Ala Thr Ser Asp His Pro
        35              40              45

Asn Asn Gln Asp Gln Ser Ser Ser Leu Pro Glu Glu Cys Val Pro Ser
    50              55              60

Asp Glu Ser Thr Pro Pro Ser Ile Lys Lys Ile Ile His Val Leu Glu
65              70              75              80

Lys Val Gln Tyr Leu Glu Gln Glu Val Glu Glu Phe Val Gly Lys Lys
            85              90              95

Thr Asp Lys Ala Tyr Trp Leu Leu Glu Glu Met Leu Thr Lys Glu Leu
        100             105             110

Leu Glu Leu Asp Ser Val Glu Thr Gly Gly Gln Asp Ser Val Arg Gln
        115             120             125

Ala Arg Lys Glu Ala Val Cys Lys Ile Gln Ala Ile Leu Glu Lys Lys
    130             135             140

Lys Lys Lys Asn Ser
145


<210> 232
<211> 87
<212> PRT
<213> Homo sapiens

<400> 232
Gly Ala Arg Ala Thr Ala Pro Val Thr Val Arg Pro Thr Ala Ala Thr
  1             5               10              15

Thr Gly Leu Gly Val Glu Met Cys Arg Tyr Thr His Leu His Pro Tyr
        20              25              30

Ile Leu Phe Ala Leu Asn Leu Pro Ser Leu Pro Phe Pro Gly Gly Cys
        35              40              45

Ala Gly Ala Ala Arg Arg Arg Pro Pro Gly Trp Glu Lys Ala Glu Glu
    50              55              60

Ala Met Ala Thr Ile Pro Arg Glu Ala Pro Gly Gln Ser Leu Val Glu
65              70              75              80

Pro Glu Glu Ala Thr Arg Val
                85


<210> 233
<211> 25
<212> PRT
<213> Homo sapiens

<400> 233
Pro Val Thr Val Arg Pro Thr Ala Ala Thr Thr Gly Leu Gly Val Glu
```

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             1                    5                         10                         15

Met Cys Arg Tyr Thr His Leu His Pro
                20                      25


<210> 234
<211> 25
<212> PRT
<213> Homo sapiens

<400> 234
Pro Tyr Ile Leu Phe Ala Leu Asn Leu Pro Ser Leu Pro Phe Pro Gly
  1                    5                         10                         15


Gly Cys Ala Gly Ala Ala Arg Arg Arg
                20                      25


<210> 235
<211> 20
<212> PRT
<213> Homo sapiens

<400> 235
Lys Ala Glu Glu Ala Met Ala Thr Ile Pro Arg Glu Ala Pro Gly Gln
  1                    5                         10                         15


Ser Leu Val Glu
                20


<210> 236
<211> 26
<212> PRT
<213> Homo sapiens

<400> 236
Met Asn Arg His Asn Phe Pro Cys Ser Val His Gln Tyr Glu Ser Ser
  1                    5                         10                         15


Gly Thr Val Asn Asn Asp Asp Ser Asp Leu
                20                      25


<210> 237
<211> 24
<212> PRT
<213> Homo sapiens

<400> 237
Asp Ser Gln Val Gln Tyr Ser Ala Glu Pro Gln Leu Tyr Gly Asn Ala
  1                    5                         10                         15


Thr Ser Asp His Pro Asn Asn Gln
                20


<210> 238
<211> 25
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<212> PRT
<213> Homo sapiens

<400> 238
His Pro Asn Asn Gln Asp Gln Ser Ser Ser Leu Pro Glu Glu Cys Val
 1               5                   10                  15

Pro Ser Asp Glu Ser Thr Pro Pro Ser
            20                  25


<210> 239
<211> 24
<212> PRT
<213> Homo sapiens

<400> 239
Glu Val Glu Glu Phe Val Gly Lys Lys Thr Asp Lys Ala Tyr Trp Leu
 1               5                   10                  15

Leu Glu Glu Met Leu Thr Lys Glu
            20


<210> 240
<211> 24
<212> PRT
<213> Homo sapiens

<400> 240
Leu Glu Leu Asp Ser Val Glu Thr Gly Gly Gln Asp Ser Val Arg Gln
 1               5                   10                  15

Ala Arg Lys Glu Ala Val Cys Lys
            20


<210> 241
<211> 9
<212> PRT
<213> Homo sapiens

<400> 241
Leu Asn Ser Ser Asp Cys Gln Leu Ala
 1               5


<210> 242
<211> 9
<212> PRT
<213> Homo sapiens

<400> 242
Asp Asn Tyr Cys Leu Gln Ile Asn Pro
 1               5


<210> 243
<211> 13
<212> PRT
```

<213> Homo sapiens

<400> 243
Lys Arg Ile Leu Asn Lys Pro Val Gly Leu Lys Asp Leu
1   5   10

<210> 244
<211> 20
<212> PRT
<213> Homo sapiens

<400> 244
Gly Pro Gln Ile Ala Tyr Val Arg Asp Phe Lys Ala Lys Val Gln Tyr
1   5   10   15

Phe Arg Phe Trp
              20

<210> 245
<211> 21
<212> PRT
<213> Homo sapiens

<400> 245
Tyr Phe Val Asn His Asn Thr Arg Ile Thr Gln Trp Glu Asp Pro Arg
1   5   10   15

Ser Gln Gly Gln Leu
              20

<210> 246
<211> 23
<212> PRT
<213> Homo sapiens

<400> 246
Ile Gly Arg Phe Ile Ala Met Ala Leu Phe His Gly Lys Phe Ile Asp
1   5   10   15

Thr Gly Phe Ser Leu Pro Phe
              20

<210> 247
<211> 18
<212> PRT
<213> Homo sapiens

<400> 247
Lys Gln Ile Met Trp Phe Trp Gln Phe Val Lys Glu Ile Asp Asn Glu
1   5   10   15

Lys Arg

<210> 248

100

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<211> 17
<212> PRT
<213> Homo sapiens

<400> 248
Phe Asn Arg Leu Asp Leu Pro Pro Tyr Lys Ser Tyr Glu Gln Leu Lys
  1               5                  10                  15

Glu


<210> 249
<211> 474
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (235)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (428)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 249
Thr His Ala Ser Ala Thr Arg Pro Gly Pro Leu Pro Pro Gly Trp Glu
  1               5                  10                  15

Lys Arg Thr Asp Ser Asn Gly Arg Val Tyr Phe Val Asn His Asn Thr
              20                  25                  30

Arg Ile Thr Gln Trp Glu Asp Pro Arg Ser Gln Gly Gln Leu Asn Glu
```

Lys Pro Leu Pro Glu Gly Trp Glu Met Arg Phe Thr Val Asp Gly Ile
    50   55   60

Pro Tyr Phe Val Asp His Asn Arg Arg Thr Thr Thr Tyr Ile Asp Pro
65   70   75   80

Arg Thr Gly Lys Ser Ala Leu Asp Asn Gly Pro Gln Ile Ala Tyr Val
              85   90   95

Arg Asp Phe Lys Ala Lys Val Gln Tyr Phe Arg Phe Trp Cys Gln Gln
              100   105   110

Leu Ala Met Pro Gln His Ile Lys Ile Thr Val Thr Arg Lys Thr Leu
        115   120   125

Phe Glu Xaa Ser Phe Gln Gln Xaa Xaa Ser Phe Ser Pro Gln Asp Leu
    130   135   140

Arg Xaa Arg Leu Trp Val Ile Phe Pro Gly Glu Glu Gly Leu Asp Tyr
145   150   155   160

Gly Gly Val Ala Arg Glu Trp Phe Phe Leu Leu Ser His Glu Val Leu
              165   170   175

Asn Pro Met Tyr Cys Leu Phe Glu Tyr Ala Gly Lys Asp Asn Tyr Cys
        180   185   190

Leu Gln Ile Asn Pro Xaa Ser Tyr Ile Asn Pro Asp His Leu Lys Tyr
        195   200   205

Phe Arg Phe Ile Gly Arg Phe Ile Ala Met Ala Leu Phe His Gly Lys
    210   215   220

Phe Ile Asp Thr Gly Phe Ser Leu Pro Phe Xaa Lys Arg Ile Leu Asn
225   230   235   240

Lys Pro Val Gly Leu Lys Asp Leu Glu Ser Ile Asp Pro Glu Phe Tyr
              245   250   255

Asn Ser Leu Ile Trp Val Lys Glu Asn Asn Ile Glu Glu Cys Asp Leu
        260   265   270

Glu Met Tyr Phe Ser Val Asp Lys Glu Ile Leu Gly Glu Ile Lys Ser
        275   280   285

His Asp Leu Lys Pro Asn Gly Gly Asn Ile Leu Val Thr Glu Glu Asn
    290   295   300

Lys Glu Glu Tyr Ile Arg Met Val Ala Glu Trp Arg Leu Ser Arg Gly
305   310   315   320

Val Glu Glu Gln Thr Gln Ala Phe Phe Glu Gly Phe Asn Glu Ile Leu
              325   330   335

Pro Gln Gln Tyr Leu Gln Tyr Phe Asp Ala Lys Glu Leu Glu Val Leu
              340   345   350

Leu Cys Gly Met Gln Glu Ile Asp Leu Asn Asp Trp Gln Arg His Ala

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                355                      360                      365

Ile Tyr Arg His Tyr Ala Arg Thr Ser Lys Gln Ile Met Trp Phe Trp
    370                 375                 380

Gln Phe Val Lys Glu Ile Asp Asn Glu Lys Arg Met Arg Leu Leu Gln
385                 390                 395                     400

Phe Val Thr Gly Thr Cys Arg Leu Pro Val Gly Gly Phe Ala Asp Leu
            405                 410                     415

Met Gly Ser Asn Gly Pro Gln Lys Phe Cys Ile Xaa Lys Val Gly Lys
            420                 425                 430

Glu Asn Trp Leu Pro Arg Ser His Thr Cys Phe Asn Arg Leu Asp Leu
            435                 440                 445

Pro Pro Tyr Lys Ser Tyr Glu Gln Leu Lys Glu Lys Leu Leu Phe Ala
    450                 455                 460

Ile Glu Glu Thr Glu Gly Phe Gly Gln Glu
465                 470


<210> 250
<211> 10
<212> PRT
<213> Homo sapiens

<400> 250
Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu
  1               5                   10


<210> 251
<211> 10
<212> PRT
<213> Homo sapiens

<400> 251
Ala Cys Gly Ala Pro Glu Glu Ala Gly Gly
  1               5                   10


<210> 252
<211> 64
<212> PRT
<213> Homo sapiens

<400> 252
Asp Pro Arg Val Arg Asp Leu Gln Gln Lys Asp Ile Gly Val Lys Pro
  1               5                   10                  15

Glu Phe Ser Phe Asn Ile Pro Arg Ala Lys Arg Glu Leu Ala Gln Leu
            20                  25                  30

Asn Lys Cys Thr Ser Pro Gln Gln Lys Leu Val Cys Leu Arg Lys Val
          35                  40                  45

Val Gln Leu Ile Thr Gln Ser Pro Ser Gln Arg Val Asn Leu Glu Thr
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103

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<210> 253
<211> 21
<212> PRT
<213> Homo sapiens

<400> 253
Gln Gln Lys Asp Ile Gly Val Lys Pro Glu Phe Ser Phe Asn Ile Pro
 1               5                   10                  15

Arg Ala Lys Arg Glu
            20


<210> 254
<211> 25
<212> PRT
<213> Homo sapiens

<400> 254
Lys Cys Thr Ser Pro Gln Gln Lys Leu Val Cys Leu Arg Lys Val Val
 1               5                   10                  15

Gln Leu Ile Thr Gln Ser Pro Ser Gln
            20                  25


<210> 255
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 255
Trp Gln Val Pro Ala Pro Val Ile Pro Gly Xaa Asp Pro Arg Val Arg
 1               5                   10                  15

Gly Ala Arg Lys Arg Thr Leu Leu Gly Val Ala Gly Gly Trp Arg Arg
            20                  25                  30

Phe Glu Arg Leu Trp Ala Gly Ser Leu Ser
         35                  40


<210> 256
<211> 41
<212> PRT
<213> Homo sapiens

<400> 256
Ser Arg Ser Leu Ala Leu Ala Ala Ala Pro Ser Ser Asn Gly Ser Pro
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                 1                    5                           10                          15

         Trp Arg Leu Leu Gly Ala Leu Cys Leu Gln Arg Pro Pro Val Val Ser
                        20                    25                          30

         Lys Pro Leu Thr Pro Leu Gln Glu Glu
                        35                    40


<210> 257
<211> 11
<212> PRT
<213> Homo sapiens

<400> 257
Leu Lys Val Pro Thr Cys Tyr Ser Ala Asn Thr
 1               5                   10


<210> 258
<211> 10
<212> PRT
<213> Homo sapiens

<400> 258
Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu
 1               5                   10


<210> 259
<211> 7
<212> PRT
<213> Homo sapiens

<400> 259
Gly Arg Pro Thr Arg Pro Ile
 1               5


<210> 260
<211> 21
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 260
Asn Xaa Trp Ile Pro Arg Ala Ala Gly Ile Arg His Xaa Ala Ala Leu
 1               5                   10                          15

Gly Gln Ala Gly Thr
                20
```

<210> 261
<211> 85
<212> PRT
<213> Homo sapiens

<400> 261
Leu Leu Phe His Met Lys Leu Arg Lys Glu Val Glu Arg Thr Gly Leu
1   5   10   15

Val Leu Trp Ala Leu Leu Ala Gly Ala Pro Pro Thr Ala Gly Leu
            20   25   30

Gln Leu Gln Gly Ser Glu Ala Ile Ser Glu Lys Val Gly Ser Gly Ala
        35   40   45

Glu Gly Ser Arg Gly Gln Val Pro Gly Gln Leu Leu Gln Gln Ala Gln
    50   55   60

Gln Ala Phe His Leu Cys Pro Gln Val Ile His Gly Leu Leu Tyr His
65   70   75   80

Leu Leu His Asp Ile
                85

<210> 262
<211> 25
<212> PRT
<213> Homo sapiens

<400> 262
Arg Lys Glu Val Glu Arg Thr Gly Leu Val Leu Trp Ala Leu Leu Ala
1   5   10   15

Gly Ala Pro Pro Pro Thr Ala Gly Leu
            20   25

<210> 263
<211> 23
<212> PRT
<213> Homo sapiens

<400> 263
Gly Ser Arg Gly Gln Val Pro Gly Gln Leu Leu Gln Gln Ala Gln Gln
1   5   10   15

Ala Phe His Leu Cys Pro Gln
            20

<210> 264
<211> 16
<212> PRT
<213> Homo sapiens

<400> 264
Ile Arg His Glu Arg His Glu Leu Val Pro Asn Ser Ala Arg Asp Phe

106

<210> 265
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 265
Ser Gly Xaa Trp Gln Gly Leu Asp Glu Val Val Arg Leu Leu Asn Xaa
 1   5   10   15

Ser Asp Phe Ala Phe Thr Asp
            20

<210> 266
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 266
Gly Ser Leu Ala Lys Arg Ser Asn Phe Arg Ala Ile Ser Lys Lys Leu
 1   5   10   15

Asn Leu Ile Pro Arg Val Asp Gly Glu Tyr Asp Leu Lys Val Pro Arg
            20   25   30

Asp Met Ala Tyr Val Phe Xaa Gly Ala Tyr Val Pro Leu Ser Cys Arg
            35   40   45

Ile Ile Glu Gln Val Leu Glu Arg Arg Xaa Ala Gly Pro
    50   55   60

<210> 267
<211> 7

<212> PRT
<213> Homo sapiens

<400> 267
Glu Phe Gly Thr Ser Trp Val
 1   5

<210> 268
<211> 33
<212> PRT
<213> Homo sapiens

<400> 268
Thr Pro His Asn Leu Ser Ala Arg Arg Leu Ser Gly Thr Met Tyr Gly
 1   5   10   15

Phe Phe Ala Leu Gln Leu Thr Val Leu Leu Val His Tyr Phe Phe Leu
            20   25   30

Ile

<210> 269
<211> 29
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 269
Cys Gly Ala Cys Thr Xaa Leu Ser Leu Ser Asp Ser Arg Arg Cys Gly
 1   5   10   15

Cys Cys Lys Gly Ser Ser Leu Arg His Thr Ala Val Ala
            20   25

<210> 270
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 270
Gln Lys Glu Trp Lys Leu Phe Leu Arg Gly Arg Gln Asn Glu Lys Ser
 1   5   10   15

Gly Tyr Gln Lys Leu Leu Glu Leu Ile Leu Leu Asp Gln Thr Val Arg
            20   25   30

Val Val Thr Ala Gly Ser Ala Ile Leu Gln Lys Cys His Phe Tyr Glu

Val Leu Ser Glu Ile Lys Arg Leu Gly Asp His Leu Ala Glu Lys Thr
    50   55   60

Ser Xaa Leu Pro Asn His Ser Glu Pro Asp His Asp Thr Asp Ala Gly
65   70   75   80

Leu Glu Arg Thr Asn Pro Glu Tyr Glu Asn Glu Val Glu Ala Ser Met
            85   90   95

Asp Met Asp Leu Leu Glu Ser Ser Asn Ile Ser Glu Gly Glu Ile Glu
            100   105   110

Arg Leu Ile Asn Leu Leu Glu Glu Val Phe His Leu Met Glu Thr Ala
    115   120   125

Pro His Thr Met Ile Gln Gln Pro Val Lys Ser Phe Pro Thr
    130   135   140

<210> 271
<211> 27
<212> PRT
<213> Homo sapiens

<400> 271
Leu Arg Gly Arg Gln Asn Glu Lys Ser Gly Tyr Gln Lys Leu Leu Glu
    1   5   10   15

Leu Ile Leu Leu Asp Gln Thr Val Arg Val Val
            20   25

<210> 272
<211> 26
<212> PRT
<213> Homo sapiens

<400> 272
Ile Leu Gln Lys Cys His Phe Tyr Glu Val Leu Ser Glu Ile Lys Arg
    1   5   10   15

Leu Gly Asp His Leu Ala Glu Lys Thr Ser
            20   25

<210> 273
<211> 22
<212> PRT
<213> Homo sapiens

<400> 273
Asp Ala Gly Leu Glu Arg Thr Asn Pro Glu Tyr Glu Asn Glu Val Glu
    1   5   10   15

Ala Ser Met Asp Met Asp
            20

```
<210> 274
<211> 26
<212> PRT
<213> Homo sapiens

<400> 274
Asn Ile Ser Glu Gly Glu Ile Glu Arg Leu Ile Asn Leu Leu Glu Glu
 1               5                   10                  15

Val Phe His Leu Met Glu Thr Ala Pro His
              20                  25


<210> 275
<211> 8
<212> PRT
<213> Homo sapiens

<400> 275
Ile Ser Leu Cys Lys Arg Ser Gly
 1               5


<210> 276
<211> 50
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 276
Gly Ser Arg Arg His Val Val Gly Lys Pro Gly Thr Pro Cys Arg Tyr
 1               5                   10                  15

Arg Ala Gly Ile Pro Xaa Val Asp Pro Arg Val Arg Ser Ile Thr Val
              20                  25                  30

Ile Val Lys Met Trp Phe Leu Arg Val Val Ala Thr Tyr Gly Gly Val
              35                  40                  45

Glu Arg
     50


<210> 277
<211> 10
<212> PRT
<213> Homo sapiens

<400> 277
Leu Ala Pro Ser Ser Val Gly Ser Ala Ser
 1               5                   10


<210> 278
<211> 39
<212> PRT
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<213> Homo sapiens

<400> 278
Arg Glu Ala Thr Lys Asn Pro Thr His His Arg Ser Thr Pro His Ala
1   5   10   15

Ala Gly Ser Gln Leu Asn Val Pro Pro Gln Pro Cys Phe Pro Leu His
                20   25   30

His Gln Ile Lys Thr Ser Pro
            35

<210> 279
<211> 38
<212> PRT
<213> Homo sapiens

<400> 279
Ser Gln Thr Ile Phe Lys Gln Ser Arg His Arg Cys Asp Ser Arg Gln
1   5   10   15

Glu Ser Thr Trp Leu Cys Ser His Glu Lys Asp Ala Thr Lys Met Met
                20   25   30

His Leu Asn Asp Asn Ser
            35

<210> 280
<211> 48
<212> PRT
<213> Homo sapiens

<400> 280
Val Thr Gly Ser Pro Ile Leu Gln Leu Ala Leu Leu Gln Leu Pro Ala
1   5   10   15

Trp Pro Leu Arg Gly Arg Leu Arg Gly Lys Arg His Cys Thr Gly Leu
                20   25   30

Asn Leu Ala Ile Ser Gly Asn Gly Gly Glu Trp Gly Gly Arg Gly Glu
            35   40   45

<210> 281
<211> 79
<212> PRT
<213> Homo sapiens

<400> 281
Gln Gly Tyr Ser Thr Lys Pro Arg Leu Met Val Pro Leu Lys Met Asp
1   5   10   15

Ser Ile Thr Val His Ile Arg Ser Thr Asn Gly Pro Ile Asp Val Tyr
                20   25   30

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Leu Cys Glu Val Glu Gln Gly Gln Thr Ser Asn Lys Arg Ser Glu Gly
         35                  40                  45

Val Gly Thr Ser Ser Ser Glu Ser Thr His Pro Glu Gly Pro Glu Glu
         50                  55                  60

Glu Glu Asn Pro Gln Gln Ser Glu Glu Leu Leu Glu Val Ser Asn
 65                  70                  75


<210> 282
<211> 30
<212> PRT
<213> Homo sapiens

<400> 282
Asp Ser Ile Thr Val His Ile Arg Ser Thr Asn Gly Pro Ile Asp Val
 1               5                  10                  15

Tyr Leu Cys Glu Val Glu Gln Gly Gln Thr Ser Asn Lys Arg
             20                  25                  30


<210> 283
<211> 25
<212> PRT
<213> Homo sapiens

<400> 283
Leu Met Val Pro Leu Lys Met Asp Ser Ile Thr Val His Ile Arg Ser
 1               5                  10                  15

Thr Asn Gly Pro Ile Asp Val Tyr Leu
             20                  25


<210> 284
<211> 26
<212> PRT
<213> Homo sapiens

<400> 284
Gln Gly Gln Thr Ser Asn Lys Arg Ser Glu Gly Val Gly Thr Ser Ser
 1               5                  10                  15

Ser Glu Ser Thr His Pro Glu Gly Pro Glu
             20                  25


<210> 285
<211> 25
<212> PRT
<213> Homo sapiens

<400> 285
Ile Arg His Glu Tyr Pro Val Leu Ile Gln Phe Ser Val Ser Tyr Arg
 1               5                  10                  15

Lys Ser Phe Ile Phe Cys Leu Pro Glu
             20                  25
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<210> 286
<211> 41
<212> PRT
<213> Homo sapiens

<400> 286
Lys Gln Val Lys Cys Ala Lys Val Ser Tyr Leu Leu Phe Leu Phe Gln
 1               5                  10                  15

Tyr Cys Ala Ile Asp Ser Cys Ile Lys Phe Trp Asn Ala Gly Ser Ser·
             20                  25                  30

Trp Leu Ser Ser Val Thr Leu Trp Ser
         35                  40


<210> 287
<211> 13
<212> PRT
<213> Homo sapiens

<400> 287
Ile Tyr Val Met Asp Thr Ser Arg Ser Thr Asn Pro Val
 1               5                  10


<210> 288
<211> 14
<212> PRT
<213> Homo sapiens

<400> 288
Asn Met Leu Tyr Ala Cys Ser Ile Leu Tyr Lys Thr Lys Leu
 1               5                  10


<210> 289
<211> 19
<212> PRT
<213> Homo sapiens

<400> 289
Met Asn Lys Thr Asp Ile Ile Asp His Ser Phe Ala Val Glu Trp Met
 1               5                  10                  15

Gln Asp Phe


<210> 290
<211> 13
<212> PRT
<213> Homo sapiens

<400> 290
Ala Phe Gln Asp Ala Leu Asn Gln Glu Thr Thr Tyr Val
 1               5                  10
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113

<210> 291
<211> 41
<212> PRT
<213> Homo sapiens

<400> 291
Asn Leu Thr Arg Ser Met Ser Leu Val Leu Asp Glu Phe Tyr Ser Ser
 1   5   10   15

Leu Arg Val Val Gly Val Ser Ala Val Leu Gly Thr Gly Leu Asp Glu
             20   25   30

Leu Phe Val Gln Val Thr Ser Ala Ala
         35   40

<210> 292
<211> 10
<212> PRT
<213> Homo sapiens

<400> 292
Leu Lys Lys Ser Leu Ala Asn Ala Glu Ser
 1   5   10

<210> 293
<211> 29
<212> PRT
<213> Homo sapiens

<400> 293
Lys Asp Met Gly Ser Val Ala Leu Asp Ala Gly Thr Ala Lys Asp Ser
 1   5   10   15

Leu Ser Pro Val Leu His Pro Ser Asp Leu Ile Leu Thr
             20   25

<210> 294
<211> 28
<212> PRT
<213> Homo sapiens

<400> 294
Ala Gly Ser Gly Lys Thr Thr Phe Val Gln Arg Leu Thr Gly His Leu
 1   5   10   15

His Ala Gln Gly Thr Pro Pro Tyr Val Ile Asn Leu
             20   25

<210> 295
<211> 134
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE

114

<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 295
Ser Thr Trp Ile Gln Gln Tyr Met Lys Phe Pro Phe Leu Pro Ile Leu
 1   5   10   15

Val Met Lys Phe Ile Glu Lys Ala Gln Asn Met Ser Lys Tyr Val Leu
            20   25   30

Ile Asp Thr Pro Gly Gln Ile Glu Val Phe Thr Trp Ser Ala Ser Gly
        35   40   45

Thr Ile Ile Thr Glu Ala Leu Ala Ser Ser Phe Pro Thr Val Xaa Ile
    50   55   60

Tyr Val Met Asp Thr Ser Arg Ser Thr Asn Pro Val Thr Phe Met Cys
65   70   75   80

Asn Met Leu Tyr Ala Cys Ser Ile Leu Tyr Lys Thr Lys Leu Ala Phe
            85   90   95

Ile Xaa Gly Met Asn Lys Thr Asp Ile Ile Asp His Ser Phe Ala Val
        100   105   110

Glu Trp Met Gln Asp Phe Xaa Ala Phe Gln Asp Ala Leu Asn Gln Glu
        115   120   125

Thr Thr Tyr Val Ile Thr
    130

<210> 296
<211> 197
<212> PRT
<213> Homo sapiens

<400> 296
Gly Phe Pro Arg Cys Leu Glu Ser Arg Asp Tyr Ile Arg His Asn Leu
 1   5   10   15

Thr Arg Ser Met Ser Leu Val Leu Asp Glu Phe Tyr Ser Ser Leu Arg
            20   25   30

Val Val Gly Val Ser Ala Val Leu Gly Thr Gly Leu Asp Glu Leu Phe
        35   40   45

Val Gln Val Thr Ser Ala Ala Glu Glu Tyr Glu Arg Glu Tyr Arg Pro
    50   55   60

115

Glu Tyr Glu Arg Leu Lys Lys Ser Leu Ala Asn Ala Glu Ser Gln Gln
65   70   75   80

Gln Arg Glu Gln Leu Glu Arg Leu Arg Lys Asp Met Gly Ser Val Ala
            85   90   95

Leu Asp Ala Gly Thr Ala Lys Asp Ser Leu Ser Pro Val Leu His Pro
            100   105   110

Ser Asp Leu Ile Leu Thr Arg Gly Thr Leu Asp Glu Glu Asp Glu Glu
        115   120   125

Ala Asp Ser Asp Thr Asp Asp Ile Asp His Arg Val Thr Glu Glu Ser
    130   135   140

His Glu Glu Pro Ala Phe Gln Asn Phe Met Gln Glu Ser Met Ala Gln
145   150   155   160

Tyr Trp Lys Arg Asn Asn Lys His Arg Val Thr Glu Glu Ser His Glu
            165   170   175

Glu Pro Ala Phe Gln Asn Phe Met Gln Glu Ser Met Ala Gln Tyr Trp
            180   185   190

Lys Arg Asn Asn Lys
            195

<210> 297
<211> 24
<212> PRT
<213> Homo sapiens

<400> 297
Thr Phe Lys Ser Leu Trp Lys His Trp Thr Leu Ala Gly Pro Gly Asn
1   5   10   15

Ile Gly Lys Asn Trp Ile Gly Arg
            20

<210> 298
<211> 163
<212> PRT
<213> Homo sapiens

<400> 298
Ala His Ala Val Trp Arg Pro Gly Val Leu Pro Gly Leu Val Glu Leu
1   5   10   15

Arg Val Cys His Leu Leu Leu Ala Glu Leu Glu His Pro Cys Ala Gln
            20   25   30

Val Val His Gln Val Gly Gly Val Cys Val Cys Val Met Trp Asn Met
        35   40   45

Ala Val Asn Leu Asn Arg Phe Pro Cys Pro Leu Leu Cys Arg His Phe
    50   55   60

Tyr Lys Pro Met Leu Arg Arg Gly Ser Ser Lys Trp Met Ala Arg Thr

116

Gly Val Phe Leu Ala Ser Ala Phe Phe His Glu Tyr Leu Val Ser Val
                85   90   95

Pro Leu Arg Met Phe Arg Leu Trp Ala Phe Thr Gly Met Met Ala Gln
               100   105   110

Ile Pro Leu Ala Trp Phe Val Gly Arg Phe Phe Gln Gly Asn Tyr Gly
         115   120   125

Asn Ala Ala Val Trp Leu Ser Leu Ile Ile Gly Gln Pro Ile Ala Val
     130   135   140

Leu Met Tyr Val His Asp Tyr Tyr Val Leu Asn Tyr Glu Ala Pro Ala
145   150   155   160

Ala Glu Ala

<210> 299
<211> 8
<212> PRT
<213> Homo sapiens

<400> 299
Tyr Phe Leu Phe Ala Pro Thr Leu
  1   5

<210> 300
<211> 16
<212> PRT
<213> Homo sapiens

<400> 300
Asn Leu Asn Arg Phe Pro Cys Pro Leu Leu Cys Arg His Phe Tyr Lys
  1   5   10   15

<210> 301
<211> 16
<212> PRT
<213> Homo sapiens

<400> 301
Gln Gly Asn Tyr Gly Asn Ala Ala Val Trp Leu Ser Leu Ile Ile Gly
  1   5   10   15

<210> 302
<211> 17
<212> PRT

<213> Homo sapiens

<400> 302
Leu Tyr Tyr Phe Leu Phe Ala Pro Thr Leu Cys Tyr Glu Leu Asn Phe
 1   5   10   15

Pro

<210> 303
<211> 26
<212> PRT
<213> Homo sapiens

<400> 303
Glu Met Leu Phe Phe Thr Gln Leu Gln Val Gly Leu Ile Gln Gln Trp
 1   5   10   15

Met Val Pro Thr Ile Gln Asn Ser Met Lys
            20   25

<210> 304
<211> 18
<212> PRT
<213> Homo sapiens

<400> 304
Val Thr Tyr Phe Trp Gln Asn Trp Asn Ile Pro Val His Lys Trp Cys
 1   5   10   15

Ile Arg

<210> 305
<211> 60
<212> PRT
<213> Homo sapiens

<400> 305
Pro Phe Lys Asp Met Asp Tyr Ser Arg Ile Ile Glu Arg Leu Leu Lys
 1   5   10   15

Leu Ala Val Pro Asn His Leu Ile Trp Leu Ile Phe Phe Tyr Trp Leu
            20   25   30

Phe His Ser Cys Leu Asn Ala Val Ala Glu Leu Met Gln Phe Gly Asp
            35   40   45

Arg Glu Phe Tyr Arg Asp Trp Trp Asn Ser Glu Ser
    50   55   60

<210> 306
<211> 48
<212> PRT
<213> Homo sapiens

118

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<400> 306
Arg His Phe Tyr Lys Pro Met Leu Arg Arg Gly Ser Ser Lys Trp Met
 1               5                   10                  15

Ala Arg Thr Gly Val Phe Leu Ala Ser Ala Phe Phe His Glu Tyr Leu
            20              25                  30

Val Ser Val Pro Leu Arg Met Phe Arg Leu Trp Ala Phe Thr Gly Met
        35                  40                  45


<210> 307
<211> 47
<212> PRT
<213> Homo sapiens

<400> 307
Met Ala Gln Ile Pro Leu Ala Trp Phe Val Gly Arg Phe Phe Gln Gly
 1               5                   10                  15

Asn Tyr Gly Asn Ala Ala Val Trp Leu Ser Leu Ile Ile Gly Gln Pro
            20              25                  30

Ile Ala Val Leu Met Tyr Val His Asp Tyr Tyr Val Leu Asn Tyr
        35                  40                  45


<210> 308
<211> 13
<212> PRT
<213> Homo sapiens

<400> 308
Ile Arg His Glu Asp Glu Val Lys Leu Leu Glu Trp Ser
 1               5                   10


<210> 309
<211> 31
<212> PRT
<213> Homo sapiens

<400> 309
Glu Phe Gly Thr Ser Arg Gly Pro Val Pro Leu Ser Ser Thr Ser Pro
 1               5                   10                  15

Met Pro Ser Arg Leu Val Ile Arg Ala His Ser Leu Leu Phe Ala
            20              25                  30


<210> 310
<211> 6
<212> PRT
<213> Homo sapiens

<400> 310
Ala Thr Ser His Cys Gly
```

119

<210> 311
<211> 41
<212> PRT
<213> Homo sapiens

<400> 311
Met Glu Glu Glu Ala Tyr Ser Lys Gly Phe Gln Glu Gly Leu Lys Lys
1   5   10   15

Thr Lys Glu Leu Gln Asp Leu Lys Glu Glu Glu Glu Gln Lys Ser
            20   25   30

Glu Ser Pro Glu Glu Pro Glu Glu Val
        35   40

<210> 312
<211> 37
<212> PRT
<213> Homo sapiens

<400> 312
Glu Glu Thr Glu Glu Glu Glu Lys Gly Pro Arg Ser Ser Lys Leu Glu
1   5   10   15

Glu Leu Val His Phe Leu Gln Val Met Tyr Pro Lys Leu Cys Gln His
            20   25   30

Trp Gln Val Ile Trp
        35

<210> 313
<211> 16
<212> PRT
<213> Homo sapiens

<400> 313
Met Glu Trp Glu Gly Gly Ala Ile Arg His Pro Ser Thr Glu Leu Gly
1   5   10   15

<210> 314
<211> 36
<212> PRT
<213> Homo sapiens

<400> 314
Arg Pro Thr Arg Pro Pro Asp Gly Cys His Pro Ser Cys Cys Arg Met
1   5   10   15

Glu Ala Ala Met Glu Trp Glu Gly Gly Ala Ile Arg His Pro Ser Thr
            20   25   30

Glu Leu Gly Ile
          35

<210> 315
<211> 52
<212> PRT
<213> Homo sapiens

<400> 315
Gly Lys Val Glu Ile Glu Val Phe Ile Phe Pro Tyr Glu Tyr Pro Val
  1   5   10   15

Val Pro Thr Pro Leu Ile Lys Asn Thr Ile Leu Tyr Pro Leu Ser Leu
                20   25   30

Phe Cys Thr Phe Ile Lys Asn Gln Phe Ser Ile Tyr Leu Trp Ile Lys
          35   40   45

Phe Phe Ile Phe
      50

<210> 316
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 316
Ala Pro Gln Lys Phe Pro Xaa Gly Phe Phe Phe Phe Phe Leu Phe Ser
  1   5   10   15

Arg Arg Lys Lys Gln Cys Ser Lys Val Val Gln Asn Thr Gly Ala Gly
                20   25   30

Ala Ile Gln Thr Gln Val
          35

<210> 317
<211> 38
<212> PRT
<213> Homo sapiens

<400> 317
Gln Leu Leu Thr Ser Pro Thr Phe Ser Thr Val Leu Ser Asn Tyr Thr
  1   5   10   15

Cys Gln Ala Pro Ser Gln Trp Thr Asp Trp Gln Ala Leu Leu Pro Thr
                20   25   30

Gly Ile Gln Thr Glu His
          35

121

<210> 318
<211> 36
<212> PRT
<213> Homo sapiens

<400> 318
His Gln Gly Trp Asp Lys Gln Lys Gln Cys Lys Arg Lys Cys Glu His
1   5   10   15

Glu His Ala Pro Leu His His Asn Leu Trp Lys Gln Ser Gly Lys Thr
            20   25   30

Arg Leu Gly Asp
        35

<210> 319
<211> 35
<212> PRT
<213> Homo sapiens

<400> 319
Glu Cys Gln Glu Tyr Glu Ile Leu Glu His Cys Trp Trp Glu Cys Lys
1   5   10   15

Leu Val Gln Pro Phe Trp Lys Ser Ser Cys Arg Ile Pro Ala Ala Arg
            20   25   30

Gly Ile His
        35

<210> 320
<211> 15
<212> PRT
<213> Homo sapiens

<400> 320
His Cys Trp Trp Glu Cys Lys Leu Val Gln Pro Phe Trp Lys Ser
1   5   10   15

<210> 321
<211> 6
<212> PRT
<213> Homo sapiens

<400> 321
Phe Thr Phe Pro Pro Thr
1   5

<210> 322
<211> 14
<212> PRT
<213> Homo sapiens

<400> 322
Arg Ala Thr Thr His Val Ser Arg Glu Phe Phe Gly His Thr
1   5   10

122

<210> 323
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 323
Ala Asp Val Glu Leu Val Asp Pro Xaa Gly Cys Arg Asn Ser Ala Arg
 1   5   10   15

Ala Pro Ala Arg Lys Lys Glu Trp His Ser Trp Ala Trp Pro Arg Ile
            20   25   30

Arg Val Ile Arg Ala Arg Glu Ser Leu Gly Ser
        35   40

<210> 324
<211> 34
<212> PRT
<213> Homo sapiens

<400> 324
Gly Leu Trp Leu Ser Leu Gly Gly Phe His Glu Arg Gly Gln Asp Trp
 1   5   10   15

Glu Gln Thr Gln Lys Ile Tyr Asn Cys His Val Leu Leu Asn Arg Lys
            20   25   30

Gly Gln

<210> 325
<211> 68
<212> PRT
<213> Homo sapiens

<400> 325
Ala Trp Pro Arg Leu Gly Ala Asp Ser Glu Asn Leu Gln Leu Ser Arg
 1   5   10   15

Ala Ala Glu Gln Lys Gly Ala Val Val Ala Thr Tyr Arg Lys Thr His
            20   25   30

Leu Cys Asp Val Glu Ile Pro Gly Gln Gly Leu Cys Val Lys Ala Thr
        35   40   45

Leu Pro Cys Leu Gly Pro Val Leu Ser His Leu Ser Ala His Gln Gln
    50   55   60

Ala Arg Leu Val
 65

123

<210> 326
<211> 27
<212> PRT
<213> Homo sapiens

<400> 326
Arg Ala Ala Glu Gln Lys Gly Ala Val Val Ala Thr Tyr Arg Lys Thr
 1   5   10   15

His Leu Cys Asp Val Glu Ile Pro Gly Gln Gly
            20   25

<210> 327
<211> 8
<212> PRT
<213> Homo sapiens

<400> 327
Arg Arg Asp Ser Arg Ala Gly Ala
 1   5

<210> 328
<211> 41
<212> PRT
<213> Homo sapiens

<400> 328
Thr Leu Phe Ser Met Phe Ser Gly Pro Leu Gly Arg Gln Thr Gln Leu
 1   5   10   15

Asp Phe Arg Ala Asp Ile Gly Glu Glu Asn Met Ala Leu Ser Val Leu
            20   25   30

Ser Pro Asp Lys Cys Tyr Leu Tyr Thr
            35   40

<210> 329
<211> 46
<212> PRT
<213> Homo sapiens

<400> 329
His Pro Asn Leu Lys Arg Lys Cys Ile Ser Leu Gly Phe Lys His Cys
 1   5   10   15

Asn Arg Tyr Lys Ala Lys Ile Lys Thr Cys Cys Lys Val Gln Lys Lys
            20   25   30

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly Arg
            35   40   45

<210> 330
<211> 127
<212> PRT
<213> Homo sapiens

124

<220>
<221> MISC_FEATURE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 330
His His His Leu Arg Val Gly Ser Pro Trp Ser His Pro Glu Thr Gly
 1   5   10   15

Thr Ala Val His Gly Ala His Pro Gln Gly Glu Ala Ala Ser Asp Arg
            20   25   30

His Arg Gly Cys Phe Tyr Arg Arg Gln Leu Met His Gln Leu Pro
        35   40   45

Ile Tyr Asp Gln Asp Pro Ser Arg Cys Arg Gly Leu Leu Glu Asn Glu
    50   55   60

Leu Lys Leu Met Glu Glu Phe Val Lys Gln Tyr Lys Ser Glu Ala Leu
 65   70   75   80

Gly Val Gly Glu Val Ala Leu Pro Gly Xaa Gly Trp Leu Ala Lys Glu
            85   90   95

Glu Gly Lys Gln Gln Glu Lys Pro Glu Gly Ala Glu Thr Xaa Ala Xaa
            100   105   110

Thr Thr Asn Gly Xaa Xaa Ser Asp Pro Ser Lys Glu Glu Ala Cys
        115   120   125

<210> 331
<211> 7
<212> PRT
<213> Homo sapiens

<400> 331
Thr Tyr Glu Trp Ala Pro Pro
 1   5

125

<210> 332
<211> 7
<212> PRT
<213> Homo sapiens

<400> 332
Pro Lys Glu Lys Gln Pro Val
  1   5

<210> 333
<211> 34
<212> PRT
<213> Homo sapiens

<400> 333
Pro Arg Pro Ala Asn Leu Ala Ile Gln Pro Pro Leu Ser Pro Leu Arg
  1   5   10   15

Ala Leu Ala Pro Leu Pro Glu Lys Pro Gly Ala Val Pro Pro Pro Gln
              20   25   30

Lys Arg

<210> 334
<211> 30
<212> PRT
<213> Homo sapiens

<400> 334
Phe Arg Ala Trp Arg Asn His Gly His Ser Cys Phe Leu Cys Glu Ile
  1   5   10   15

Val Ile Arg Ser Gln Phe His Thr Thr Tyr Glu Pro Glu Ala
              20   25   30

<210> 335
<211> 102
<212> PRT
<213> Homo sapiens

<400> 335
Ala Asp Asn Asn Phe Thr Gln Glu Thr Ala Met Thr Met Ile Thr Pro
  1   5   10   15

Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
              20   25   30

Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
          35   40   45

Ser Ala Arg Ala Val Leu Leu Ile Trp Gly His Gly Ser Ser Gly Lys
      50   55   60

Met Ala Leu Cys Gly Val Glu Val Ser Pro Arg Val Gly Gly Ser Val

126

Pro Val His Arg Tyr Leu Leu Ala Ala His Ile His Ser Glu Ala Leu
            85   90   95

Leu Ser Gln Leu Arg Met
            100

<210> 336
<211> 24
<212> PRT
<213> Homo sapiens

<400> 336
Thr Ala Met Thr Met Ile Thr Pro Ser Ser Lys Leu Thr Leu Thr Lys
 1   5   10   15

Gly Asn Lys Ser Trp Ser Ser Thr
            20

<210> 337
<211> 26
<212> PRT
<213> Homo sapiens

<400> 337
Ser Ser Gly Lys Met Ala Leu Cys Gly Val Glu Val Ser Pro Arg Val
 1   5   10   15

Gly Gly Ser Val Pro Val His Arg Tyr Leu
            20   25

<210> 338
<211> 7
<212> PRT
<213> Homo sapiens

<400> 338
Val Asp Pro Val Lys Gly Gly
 1   5

<210> 339
<211> 15
<212> PRT
<213> Homo sapiens

<400> 339
His Arg Leu Gln Val Phe Ser Phe Pro Ile Leu Gly Ser His Asn
 1   5   10   15

<210> 340
<211> 14
<212> PRT
<213> Homo sapiens

<400> 340
Lys Trp Lys Gly Asp Leu His Cys Ile Leu Gly Leu Leu Ala
 1   5   10

<210> 341
<211> 194
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 341
Glu Val Ile Asn Thr Leu Ala Asp His Arg His Arg Gly Thr Asp Phe
 1   5   10   15

Gly Gly Ser Pro Trp Leu Leu Ile Ile Thr Val Phe Leu Arg Ser Tyr
            20   25   30

Lys Phe Ala Ile Ser Leu Cys Thr Ser Tyr Leu Cys Val Ser Phe Leu
        35   40   45

Lys Thr Ile Phe Pro Ser Gln Asn Gly His Asp Gly Ser Thr Asp Val
    50   55   60

Gln Gln Arg Ala Arg Arg Ser Asn Xaa Arg Arg Gln Glu Gly Ile Lys
65   70   75   80

Ile Val Leu Glu Asp Ile Phe Thr Leu Trp Arg Gln Val Glu Thr Lys
            85   90   95

Val Arg Ala Lys Ile Arg Lys Met Lys Val Thr Thr Lys Val Asn Arg
            100   105   110

His Asp Lys Ile Asn Gly Lys Arg Lys Thr Ala Lys Glu His Leu Arg
        115   120   125

Lys Leu Ser Met Lys Glu Arg Glu His Gly Glu Lys Glu Arg Gln Val
    130   135   140

Ser Glu Ala Glu Glu Asn Gly Lys Leu Asp Met Lys Glu Ile His Thr
145   150   155   160

Tyr Met Glu Met Phe Gln Arg Ala Gln Val Cys Gly Gly Gly Gln Arg
            165   170   175

Thr Thr Thr Asp Ala Lys Ser Pro Leu Leu Gln Glu Ser Leu Phe Ala
            180   185   190

Thr Gly

<210> 342
<211> 143
<212> PRT
<213> Homo sapiens

128

<220>
<221> MISC_FEATURE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 342
Ile Cys Val Lys Thr Phe Pro Pro Leu Ala Leu Gln Val Arg Met Ala
 1   5   10   15

Ala Xaa Glu His Arg His Ser Ser Gly Leu Pro Xaa Trp Pro Tyr Leu
            20   25   30

Thr Ala Glu Thr Leu Lys Asn Arg Met Gly His Gln Pro Pro Pro Pro
        35   40   45

Thr Gln Gln His Ser Ile Xaa Asp Asn Ser Leu Ser Leu Lys Thr Pro
    50   55   60

Ala Glu Cys Leu Leu Tyr Pro Leu Pro Pro Ser Ala Asp Asp Asn Leu
65   70   75   80

Lys Thr Pro Xaa Glu Cys Leu Leu Thr Pro Leu Pro Pro Ser Ala Pro
            85   90   95

Pro Ser Ala Asp Asp Asn Leu Lys Thr Pro Pro Glu Cys Val Cys Ser
            100   105   110

Leu Pro Phe His Pro Gln Leu His Pro Gln Arg Met Ile Ile Ser Arg
        115   120   125

His Leu Pro Ser Val Ser Ala His Ser Pro Ser Thr Leu Ser Gly
    130   135   140

<210> 343
<211> 20
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

129

<400> 343
Arg Ala Arg Arg Ser Asn Xaa Arg Arg Gln Glu Gly Ile Lys Ile Val
1   5   10   15

Leu Glu Asp Ile
              20

<210> 344
<211> 16
<212> PRT
<213> Homo sapiens

<400> 344
Leu Ser Leu Lys Thr Pro Ala Glu Cys Leu Leu Tyr Pro Leu Pro Pro
1   5   10   15

<210> 345
<211> 159
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 345
Tyr Ala Leu Arg Thr Gly Ala Phe Glu Pro Ala Glu Ala Ser Val Asn
1   5   10   15

Pro Gln Asp Leu Gln Gly Ser Leu Gln Glu Leu Lys Glu Arg Ala Leu
              20   25   30

Ser Arg Tyr Asn Leu Val Arg Gly Gln Gly Pro Glu Arg Leu Val Ser
         35   40   45

Gly Ser Asp Asp Phe Thr Leu Phe Leu Trp Ser Pro Ala Glu Xaa Lys
      50   55   60

Lys Pro Leu Thr Arg Met Thr Gly His Gln Ala Leu Ile Asn Gln Val
65   70   75   80

Leu Phe Ser Pro Asp Ser Arg Ile Val Ala Ser Ala Ser Phe Asp Lys
                85   90   95

Ser Ile Lys Leu Trp Asp Gly Arg Thr Gly Lys Tyr Leu Ala Ser Leu
              100   105   110

Arg Gly His Val Ala Ala Val Tyr Gln Ile Ala Trp Ser Ala Asp Ser
         115   120   125

130

Arg Leu Leu Val Ser Gly Ser Ser Xaa Gln His Thr Glu Gly Val Gly
    130   135   140

Cys Glu Gly Pro Glu Ala Gly His Gly Pro Ala Arg Pro Arg Gly
145   150   155

<210> 346
<211> 21
<212> PRT
<213> Homo sapiens

<400> 346
Leu Lys Glu Arg Ala Leu Ser Arg Tyr Asn Leu Val Arg Gly Gln Gly
    1   5   10   15

Pro Glu Arg Leu Val
                20

<210> 347
<211> 27
<212> PRT
<213> Homo sapiens

<400> 347
Lys His Val Ile Phe Phe Met Phe Ile Ser Asn Leu Phe Leu Ile Leu
    1   5   10   15

Cys Phe Leu Phe Arg Pro Thr Lys Thr Thr Val
                20   25

<210> 348
<211> 27
<212> PRT
<213> Homo sapiens

<400> 348
Phe Leu Leu Ile Glu Ser Tyr Gln Lys Leu Arg Asn Lys Thr Asn Leu
    1   5   10   15

Ser Leu His Val Phe Leu Phe His Thr Glu Val
                20   25

<210> 349
<211> 137
<212> PRT
<213> Homo sapiens

<400> 349
Met Pro Thr Pro Ser Met Arg Ala Asn Arg Met Pro Pro Ile Ile Ala
    1   5   10   15

Glu Pro Thr Met Ala Ser Gly Pro Leu Arg Ala Ala Ser Thr Ala Pro
                20   25   30

Val Asn Ala Pro Leu Val Ile Glu Phe Gln Gly Ser Ser Leu Pro Arg

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           35                        40                        45

Ser Arg Thr Arg Pro Gln Ser Met Val Glu Asn Arg Pro Pro His Thr
    50                    55                    60

Ala Lys Leu Pro Pro Ile Trp Gly Ala Arg Ile Leu Thr Ala Leu Ala
65                    70                    75                    80

Leu Pro Leu Asn Arg Cys Arg Ile Pro Thr Gly Ala Leu Arg Lys Pro
                85                    90                    95

Leu Met Ala Trp Lys Thr Pro Pro Pro Met Thr Pro Ile Val Lys Ala
               100                   105                   110

Pro Pro Gln Ser Ser Thr Ile Arg His Gly Gln Gly Ser Arg Ala Tyr
        115                   120                   125

Ser Gly Arg Val Gly Gly Arg Val Gly
    130                   135


<210> 350
<211> 25
<212> PRT
<213> Homo sapiens

<400> 350
Gly Ala Arg Ile Leu Thr Ala Leu Ala Leu Pro Leu Asn Arg Cys Arg
 1               5                   10                   15

Ile Pro Thr Gly Ala Leu Arg Lys Pro
            20                   25


<210> 351
<211> 38
<212> PRT
<213> Homo sapiens

<400> 351
Pro Thr Arg Pro Pro Thr Arg Pro Glu Tyr Ala Arg Glu Pro Cys Pro
 1               5                   10                   15

Trp Arg Ile Val Asp Asp Cys Gly Gly Ala Phe Thr Met Gly Val Ile
            20                   25                   30

Gly Gly Gly Val Phe Gln
         35


<210> 352
<211> 39
<212> PRT
<213> Homo sapiens

<400> 352
Ala Ile Lys Gly Phe Arg Asn Ala Pro Val Gly Ile Arg His Arg Leu
 1               5                   10                   15

Arg Gly Ser Ala Asn Ala Val Arg Ile Arg Ala Pro Gln Ile Gly Gly
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                20                      25                      30

Ser Phe Ala Val Trp Gly Gly
            35



<210> 353
<211> 40
<212> PRT
<213> Homo sapiens

<400> 353
Leu Phe Ser Thr Ile Asp Cys Gly Leu Val Arg Leu Arg Gly Lys Glu
 1               5                  10                  15

Asp Pro Trp Asn Ser Ile Thr Ser Gly Ala Leu Thr Gly Ala Val Leu
            20                  25                  30

Ala Ala Arg Ser Gly Pro Leu Ala
            35                  40



<210> 354
<211> 38
<212> PRT
<213> Homo sapiens

<400> 354
Ile Arg His Glu Arg Lys Ser Ala Arg Ala Cys Cys Pro Leu Thr Gly
 1               5                  10                  15

Ala Gln Arg Arg Gly Gln Ala Leu Pro Thr Pro Arg Ala Gly Pro Gly
            20                  25                  30

His Ser Pro Ala Pro Val
            35



<210> 355
<211> 38
<212> PRT
<213> Homo sapiens

<400> 355
Ala Pro Ser Ala Pro Gln Glu Asp Gly Gly Ser Pro Pro Ala Pro Gln
 1               5                  10                  15

Gly Gln Pro Asp Pro Gly Pro Gly Ala Gly Gln Pro Ala Gln Leu Gly
            20                  25                  30

Pro Leu Leu Ala Phe Leu
            35



<210> 356
<211> 44
<212> PRT
<213> Homo sapiens

<400> 356
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Pro Leu Leu His Gln Asp Cys Lys Glu Ser Pro His Leu Gly Ser Ser
1   5   10   15

Gly Ser Pro Val Gln Ala Leu Asp Leu Ser Ser Ile Gln Thr Arg Thr
            20   25   30

Ala Val Ser Cys Val Asp Gly Val Arg Leu Trp Ala
            35   40

<210> 357
<211> 78
<212> PRT
<213> Homo sapiens

<400> 357
Thr Leu His Pro Pro Gln Glu Pro Gln Arg Pro Glu Ala Pro Asp Ala
1   5   10   15

Gly Asp Pro Ala Pro Leu Pro Ser Thr Ser Ser Val Gly Ser Ser Ser
            20   25   30

Gly Gly Ala Cys Gly Val Pro Cys Ala His Trp Arg Val Cys Gly Leu
            35   40   45

Ile His Leu Val Ala Leu Arg Gly Gly Ile Arg Ala Pro Val Ser Pro
      50   55   60

Pro Phe Met Phe Asn Leu His His Asn Leu Leu Asn Leu Arg
65   70   75

<210> 358
<211> 21
<212> PRT
<213> Homo sapiens

<400> 358
Glu Pro Gln Arg Pro Glu Ala Pro Asp Ala Gly Asp Pro Ala Pro Leu
1   5   10   15

Pro Ser Thr Ser Ser
            20

<210> 359
<211> 15
<212> PRT
<213> Homo sapiens

<400> 359
Arg Val Cys Gly Leu Ile His Leu Val Ala Leu Arg Gly Gly Ile
1   5   10   15

<210> 360
<211> 18
<212> PRT
<213> Homo sapiens

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<400> 360
Ile Phe Ser Cys Asp Ser Ile Ala Ile Ile Gln Ile Lys His Leu Ala
 1               5                   10                  15

Phe Pro


<210> 361
<211> 13
<212> PRT
<213> Homo sapiens

<400> 361
His Ser Gly Val Gln Thr Ile Ala Phe Gly Leu Glu Cys
 1               5                   10


<210> 362
<211> 25
<212> PRT
<213> Homo sapiens

<400> 362
Lys Val Gln Asp Arg Asp Gly Lys Glu Arg Arg Lys Gln Glu Glu Val
 1               5                   10                  15

Lys Leu Gly Arg Trp Cys Gln Trp His
            20              25


<210> 363
<211> 10
<212> PRT
<213> Homo sapiens

<400> 363
Leu Ala Pro Ser Ser Val Gly Ser Ala Ser
 1               5                   10


<210> 364
<211> 39
<212> PRT
<213> Homo sapiens

<400> 364
Arg Glu Ala Thr Lys Asn Pro Thr His His Arg Ser Thr Pro His Ala
 1               5                   10                  15

Ala Gly Ser Gln Leu Asn Val Pro Pro Gln Pro Cys Phe Pro Leu His
            20                  25                  30

His Gln Ile Lys Thr Ser Pro
            35


<210> 365
<211> 38
<212> PRT
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<210> Homo sapiens

<400> 365
Ser Gln Thr Ile Phe Lys Gln Ser Arg His Arg Cys Asp Ser Arg Gln
 1   5   10   15

Glu Ser Thr Trp Leu Cys Ser His Glu Lys Asp Ala Thr Lys Met Met
            20   25   30

His Leu Asn Asp Asn Ser
         35

<210> 366
<211> 48
<212> PRT
<213> Homo sapiens

<400> 366
Val Thr Gly Ser Pro Ile Leu Gln Leu Ala Leu Leu Gln Leu Pro Ala
 1   5   10   15

Trp Pro Leu Arg Gly Arg Leu Arg Gly Lys Arg His Cys Thr Gly Leu
            20   25   30

Asn Leu Ala Ile Ser Gly Asn Gly Gly Glu Trp Gly Gly Arg Gly Glu
         35   40   45

<210> 367
<211> 35
<212> PRT
<213> Homo sapiens

<400> 367
Leu Phe Ser Ser Phe Leu Gly Asp Thr Thr Val His Lys Val Leu Ser
 1   5   10   15

Arg Ala Thr Leu His Leu His Pro Ala Pro Tyr Leu Thr Gly Val Asp
            20   25   30

Ser Tyr Ser
         35

<210> 368
<211> 39
<212> PRT
<213> Homo sapiens

<400> 368
Asp Phe Ser Ser Tyr Ser His Pro Ser Leu Gly Thr Gln Leu Ser Ile
 1   5   10   15

Arg Cys Tyr Pro Glu Pro His Cys Ile Cys Thr Gln His His Thr Ser
            20   25   30

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Gln Glu Ser Thr Pro Thr Leu
            35

<210> 369
<211> 19
<212> PRT
<213> Homo sapiens

<400> 369
Arg Pro Thr Arg Pro Ser Ile Leu Gly Leu Tyr Val Asp Leu Tyr Val
 1   5   10   15

Phe Cys Ile

<210> 370
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 370
Gly Ala Ser Ser Arg Pro Arg Leu Glu Leu Gly Arg Leu Met Gly Pro
 1   5   10   15

Lys Gly Val Ala Val Asp Arg Asn Xaa His Ile Ile Val Val Asp Asn
                20   25   30

Lys Ser Cys Cys Val Phe Thr Phe Gln Pro Asn Gly
            35   40

<210> 371
<211> 44
<212> PRT
<213> Homo sapiens

<400> 371
Lys Leu Val Gly Arg Phe Gly Gly Arg Gly Ala Thr Asp Arg His Phe
 1   5   10   15

Ala Gly Pro His Phe Val Ala Val Asn Asn Lys Asn Glu Ile Val Val
                20   25   30

Thr Asp Phe His Asn His Ser Val Lys Val Tyr Ser
            35   40

<210> 372
<211> 42
<212> PRT
<213> Homo sapiens

<400> 372

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Ala Asp Gly Glu Phe Leu Phe Lys Phe Gly Ser His Gly Glu Gly Asn
1   5   10   15

Gly Gln Phe Asn Ala Pro Thr Gly Val Ala Val Asp Ser Asn Gly Asn
            20   25   30

Ile Ile Val Ala Asp Trp Gly Asn Ser Arg
        35   40

<210> 373
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 373
Ile Xaa Gly Ile Arg Xaa Leu Trp Leu Leu Pro Val Leu Tyr Gln His
1   5   10   15

Ile Cys Arg Thr Thr Val Trp Ser Thr Gly Pro Gly Thr Asp Leu Gly
            20   25   30

Trp Pro Cys Gly Gly Gly
            35